TEST REPORT FOR FCC DoC
for
DIVA Laboratories Ltd.
LCD Monitor
Model No.: ER-191
Brand: AG NEOVO

Prepared for : DIVA Laboratories Ltd.
7F-8, No. 351, Sec. 2, Chung Shan Road,
Chung Ho, Taipei Hsien, Taiwan

Prepared By : Audix Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei, Taiwan.

Tel : (02) 2609-9301, 2609-2133
Fax : (02) 2609-9303

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Date of Report	:	Sep. 04, 2007

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APPENDIX I (Photos of EUT)

TEST REPORT FOR FCC COMPLIANCE DECLARATION

Applicant	:	DIVA Laboratories Ltd.
Manufacturer	:	DIVA Laboratories Ltd.
EUT Description	:	LCD Monitor
	(A) MODEL NO.	: ER-191
	(B) BRAND	: AG NEOVO
	(C) SERIAL NO.	: N/A
	(D) POWER SUPPLY	: AC 100-240V, 50/60Hz
	(E) TEST VOLTAGE	: AC 120V, 60Hz

Measurement Standards Used:
FCC CFR 47 Part 15 Subpart B/May 2007 and CISPR 22/1997
ANSI C63.4-2003

The device described above was tested by Audix Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart B with the provisions of sections 15.107(a) and 15.109(a)(g) Class B limits both conducted and radiated emission.

The measurement results are contained in this test report and Audix Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology Corporation.

Date of Test : Aug. 22 ~ 24, 2007

Prepared by : Nita Lee Sep.04.2007
(Nita Lee/Assistant Administrator)

Test Engineer : Alex Deng Sep. 4. 2007
(Alex Deng/Section Manager)

Approved & Authorized Signer : Ben Cheng Sep.04.2007
(Ben Cheng/Section Manager)

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	LCD Monitor
Model Number	:	ER-191
Brand	:	AG NEOVO
Applicant	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
Manufacturer	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
LCD Panel	:	NEC, Model NL128102BC29
Max. Resolution	:	D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
Scanning Frequency	:	Horizontal: 30kHz-80kHz Vertical: 50Hz-85Hz
D-Sub Cable-To PC	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	:	Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	:	Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)
Date of Receipt of Sample	:	Aug. 20, 2007
Date of Test	:	Aug. 22 ~ 24, 2007

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number	:	Aspire E560
Serial Number	:	PTS570500163804F7B2702
FCC ID	:	By DoC
BSMI ID	:	R33142
VGA Card	:	ASUS, M/N N62000/TD/128M/A, S/N 62C0AI014563 BSMI ID. R33005
Manufacturer	:	ACER
RS232 Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. TRINITRON COLOR VIDEO MONITOR

Model Number	:	PVM-14L2
Serial Number	:	2007216
Brand	:	SONY
Manufacturer	:	SONY Corp.
FCC ID	:	By DoC
BSMI ID.	:	T33021
S-Video Cable	:	Shielded, Detachable, 1.0m
Video Cable*2	:	Shielded, Detachable, 1.8m
Component Cable*3	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

1.2.3. KEYBOARD

Model Number	:	AS-KBA000
Serial Number	:	C0602118423
FCC ID	:	By DoC
BSMI ID	:	T3A002
Manufacturer	:	Silitek (Brand: ASUS)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.4. DOT MATRIX PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02144
FCC ID	:	ACJ5Z6KX-P2135
BSMI ID	:	3872A371
Manufacturer	:	Matsushita (Brand: Panasonic)
Data Cable	:	Shielded, Detachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.5. MOUSE

Model Number	:	M-UV69a
Serial Number	:	HCB60403088
FCC ID	:	By DoC
BSMI ID	:	T4A126
Manufacturer	:	LOGITECH (Brand: ASUS)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.6. USB 2.0 STORAGE MEDIA

Model Number	:	USM64U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI DoC ID.	:	D33021
Manufacturer	:	SONY
USB Data Cable	:	Shielded, Detachable, 1.8m

1.2.7. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.8. SPEAKER

Model Number	:	J-008
Serial Number	:	J80547826
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.2.9. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08631
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.10. DVD PLAYER

Model Number	:	DV-S6D
Serial Number	:	TLKR003935TA
Manufacturer	:	Pioneer
S-Video Cable	:	Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 2.0m

1.2.11.SIGNAL GENERATOR

Model Number	:	LT443D
Serial Number	:	DIVA02730
Manufacturer	:	DIVA
SDI Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.12.75Ω IMPEDANCE

Data Cable	:	Shielded, Detachable, 1.8m

1.3. Description of Test Facility

Name of Firm **:** **Audix Technology Corporation**
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei, Taiwan.

Test Facility & Location (C3/R6/AC) **:** **No. 3 Shielded Room**
No. 67-4, Tin-Fu Tsun, Lin-Kou,
Taipei, Taiwan.

No. 6 Open Area Test Site
No. 67-4, Tin-Fu Tsun, Lin-Kou,
Taipei, Taiwan.
Federal Communication Commission
Registration Number: 98448
Filing on June 13, 2006

Semi-Anechoic Chamber
No. 53-11, Tin-Fu Tsun, Lin-Kou
Taipei Taiwan
Federal Communication Commission
Registration Number: 90993
Filing on May 16, 2006

NVLAP Lab. Code **:** 200077-0
(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No. **:** DAT-P-145/03-01

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.94dB
Radiation Test (Distance: 10m)	30MHz~300MHz	± 2.99dB
	300MHz~1000MHz	± 2.73dB

Remark：Uncertainty = $ku_c(y)$

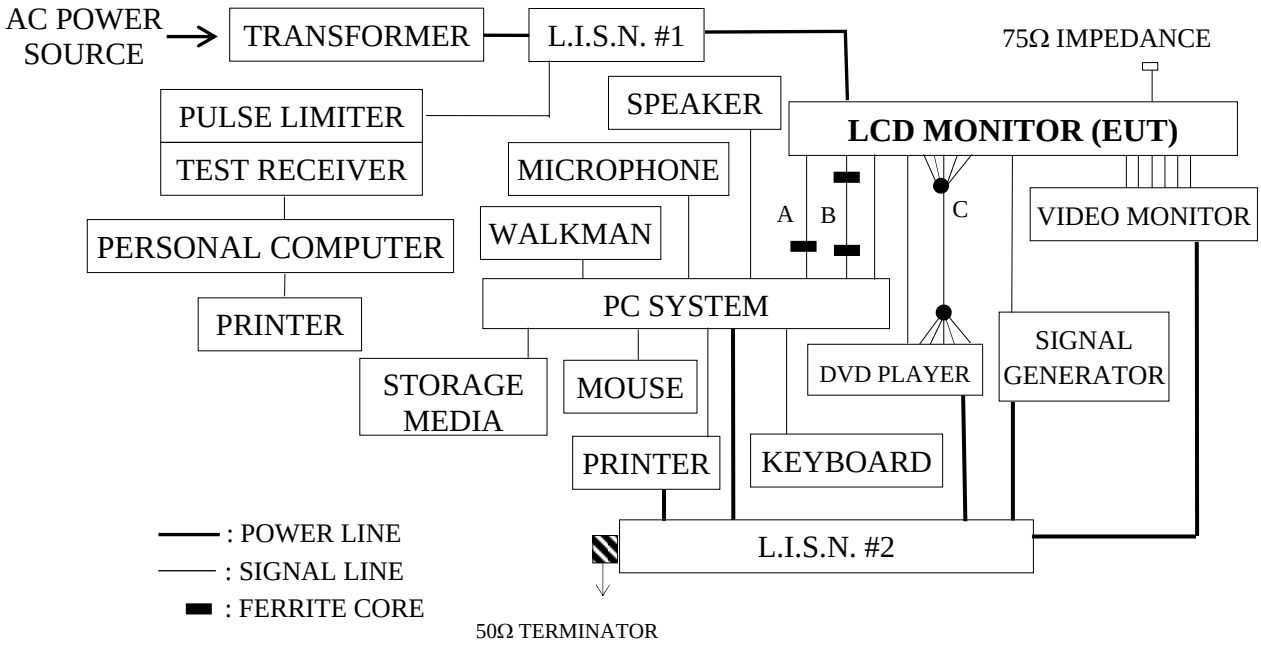
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the power line conducted emission measurement：(No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	100039	Jun. 25, 07’	Jun. 24, 08’
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1370-10	Jun. 06, 07’	Jun. 05, 08’
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1370-9	Jun. 06, 07’	Jun. 05, 08’
4.	Pulse Limiter	R & S	ESH3Z2	100041	Mar. 10, 07’	Mar. 09, 08’

2.2. Block Diagram of Test Setup



A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

2.3. Powerline Conducted Emission Limit (§15.107, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

2.4.1. LCD Monitor (EUT)

Model Number	:	ER-191
Brand	:	AG NEOVO
Serial Number	:	N/A
LCD Panel	:	NEC, Model NL128102BC29
Max. Resolution	:	D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
D-Sub Cable-To PC	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	:	Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	:	Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
Power Cord	:	Non-Shielded, Detachable, 1.8m (3 Pin)

2.4.2. Supporting System : As in Section 1.2.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turned on the power of all equipment.

2.5.3. The PC system read data from disk.

2.5.4. PC system performed the EMI self-test program "H-Win" by windows XP and sent "H" characters to the LCD Monitor (EUT), and then the screen of LCD Monitor (EUT) displayed pattern "H" by EUT's resolution via D-Sub or DVI.

2.5.5. DVD Player sent the "Color Bar" image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via S-Video input or AV input or Component Video input.

2.5.6. Signal Generator sent the "Color Bar" image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via SDI input.

2.5.7. The other peripheral devices were drove and operated in turn during all testing.

2.5.8. Repeat above procedure from 2.5.3. to 2.5.7.

2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N.# 1). The peripheral devices power cord connected to the power mains through another line impedance stabilization network (L.I.S.N. # 2). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked using a peak detector.

The all reading of measurements were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.7. Powerline Conducted Emission Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

EUT with following test mode was measured during this section testing and selected the **worst test modes (Mode 3、9、10)** to read Q.P value, all the test results are listed in next pages.

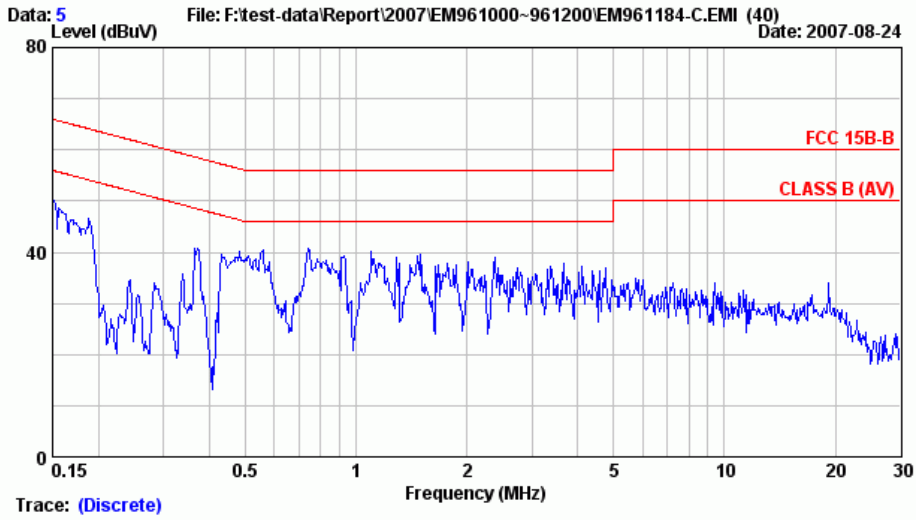
EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 24, 2007 Temperature**:** 25℃ Humidity**:** 42%

The details of test modes and reference test data are as follows：

	Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.	
				Line	Neutral
	1.	D-Sub	H Pattern, 800*600/60Hz	# 5	# 6
	2.		H Pattern, 1280*1024/75Hz	# 1	# 2
*	**3.**		**H Pattern, 1600*1200/60Hz**	**# 4**	**# 3**
	4.	DVI	H Pattern, 640*480/60Hz	# 12	# 11
	5.		H Pattern, 1024*768/60Hz	# 9	# 10
	6.		H Pattern, 1280*1024/60Hz	# 8	# 7
	7.	S IN	Color Bar Image	# 13	# 14
	8.	AV IN	Color Bar Image	# 16	# 15
*	**9.**	**COMPONENT VIDEO IN**	**Color Bar Image**	**# 17**	**# 18**
*	**10.**	**SDI IN**	**Color Bar Image**	**# 20**	**# 19**

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw




```
Site          : NO.3 Shielded Room          Data     : 5
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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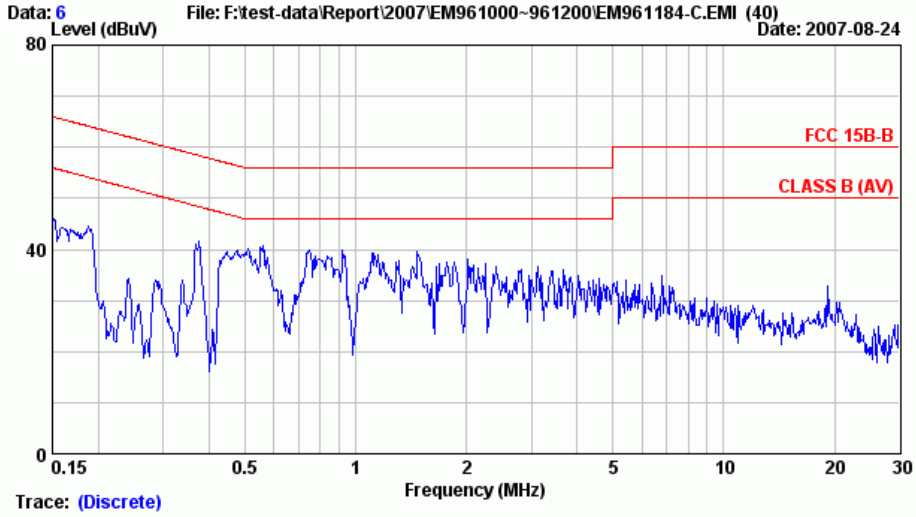
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw




```
Site          : NO.3 Shielded Room          Data     : 6
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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County ,Taiwan R.O.C. Post Code:24443
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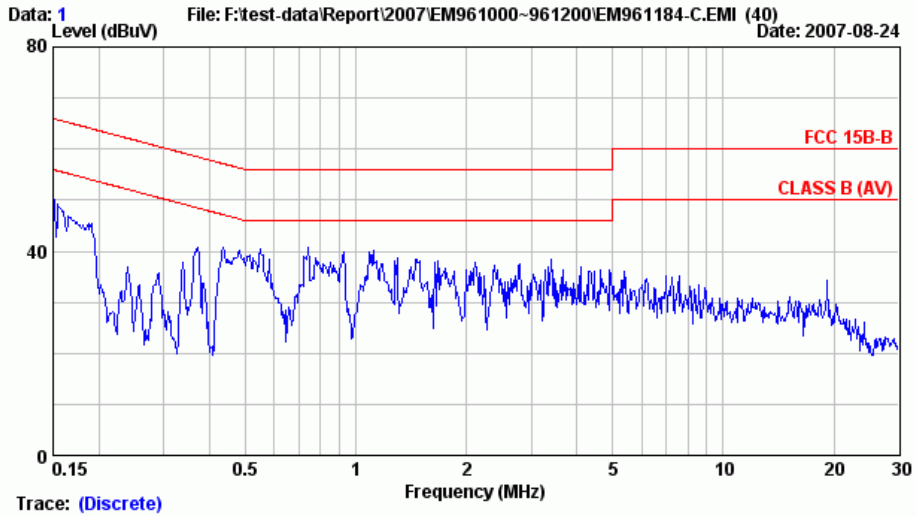


```
Site          : NO.3 Shielded Room          Data     : 1
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/75Hz(D-SUB)
```

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No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
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Tel:+886-2-26092133 Fax:+886-2-26099303
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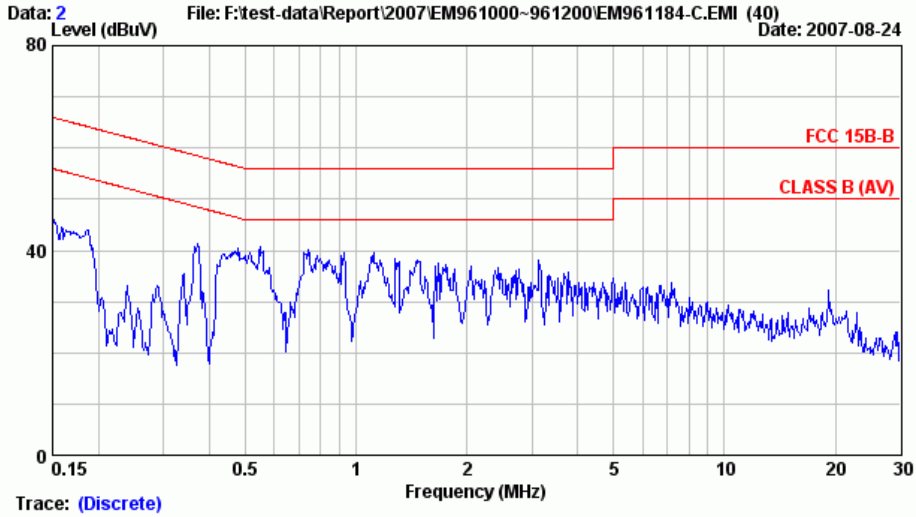


```
Site          : NO.3 Shielded Room          Data     : 2
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/75Hz(D-SUB)
```

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No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
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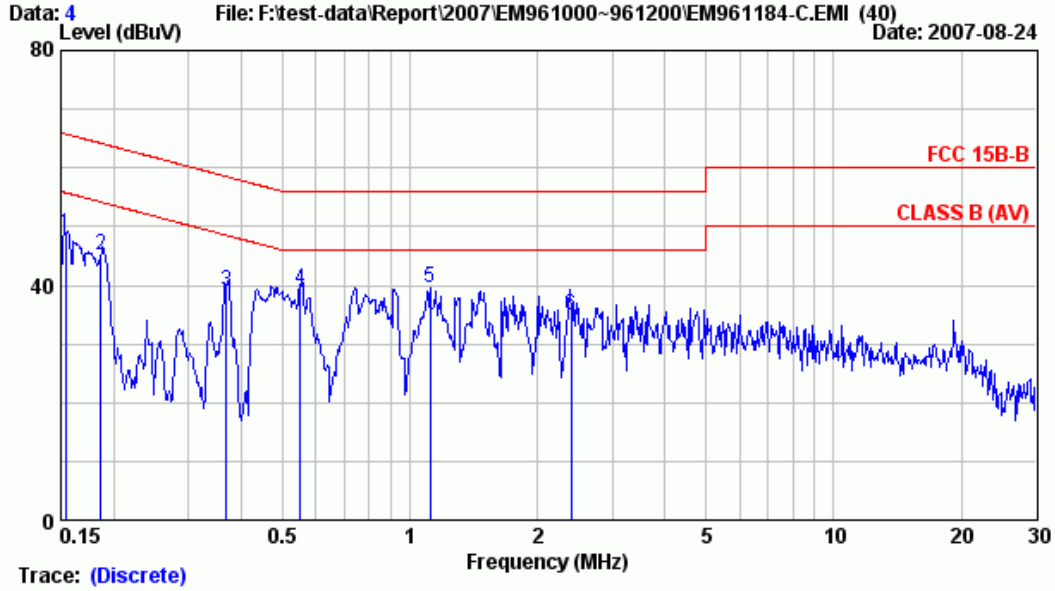

Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/60Hz(D-SUB)

Data : 4
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.154	0.29	0.20	48.05	48.54	65.78	17.24	QP
2	0.186	0.22	0.20	44.63	45.05	64.20	19.15	QP
3	0.369	0.11	0.20	38.80	39.11	58.52	19.41	QP
4	0.552	0.10	0.20	38.85	39.15	56.00	16.85	QP
5	1.117	0.10	0.40	39.11	39.61	56.00	16.39	QP
6	2.396	0.10	0.40	34.26	34.76	56.00	21.24	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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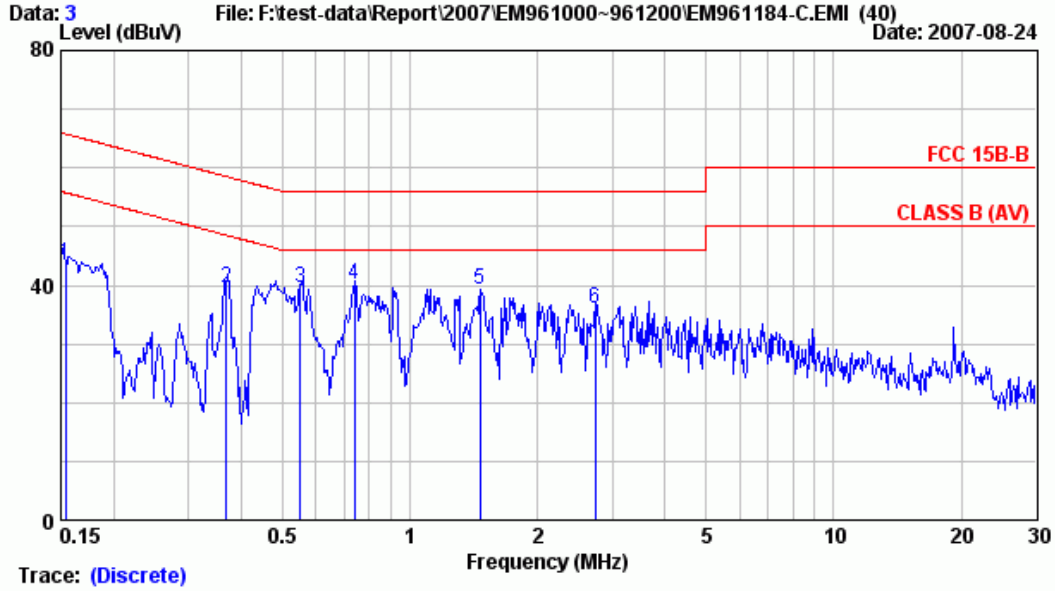

Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : 1600*1200/60Hz(D-SUB)

Data : 3
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.154	0.29	0.20	43.19	43.68	65.78	22.10	QP
2	0.369	0.11	0.20	39.36	39.67	58.52	18.85	QP
3	0.552	0.10	0.20	39.37	39.67	56.00	16.33	QP
4	0.739	0.10	0.20	39.76	40.06	56.00	15.94	QP
5	1.464	0.10	0.40	38.64	39.14	56.00	16.86	QP
6	2.736	0.10	0.40	35.43	35.93	56.00	20.07	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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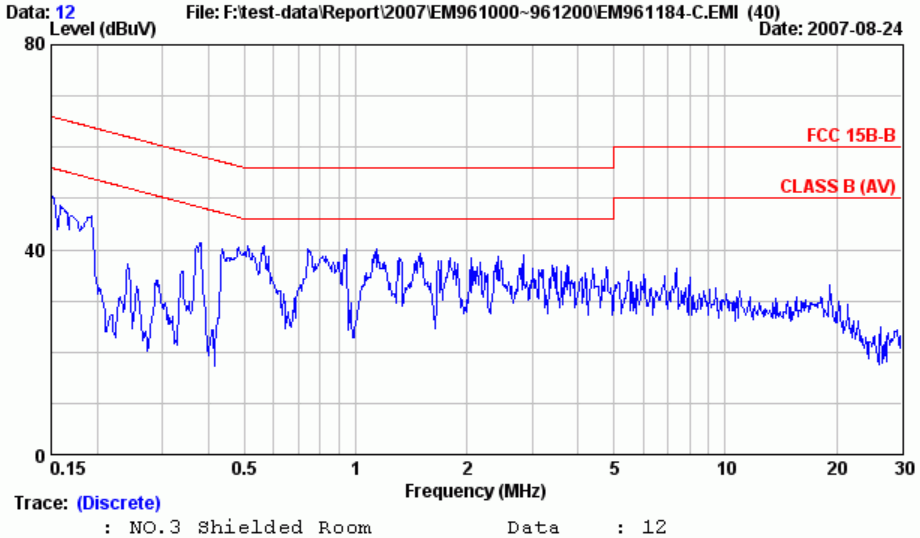

Site	: NO.3 Shielded Room	Data	: 12
Condition	: KNW-407	Phase	: LINE
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 640*480/60Hz(DVI)		

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No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
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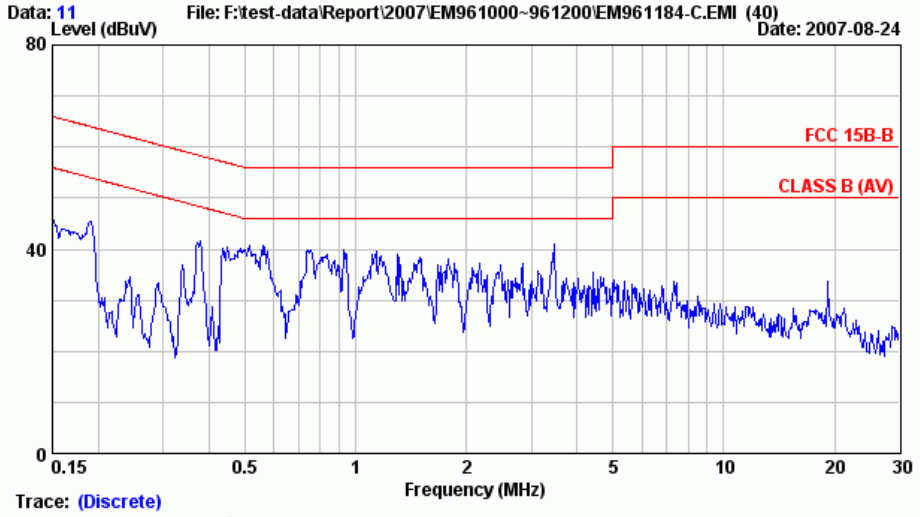

Site	: NO.3 Shielded Room	Data	: 11
Condition	: KNW-407	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 640*480/60Hz(DVI)		

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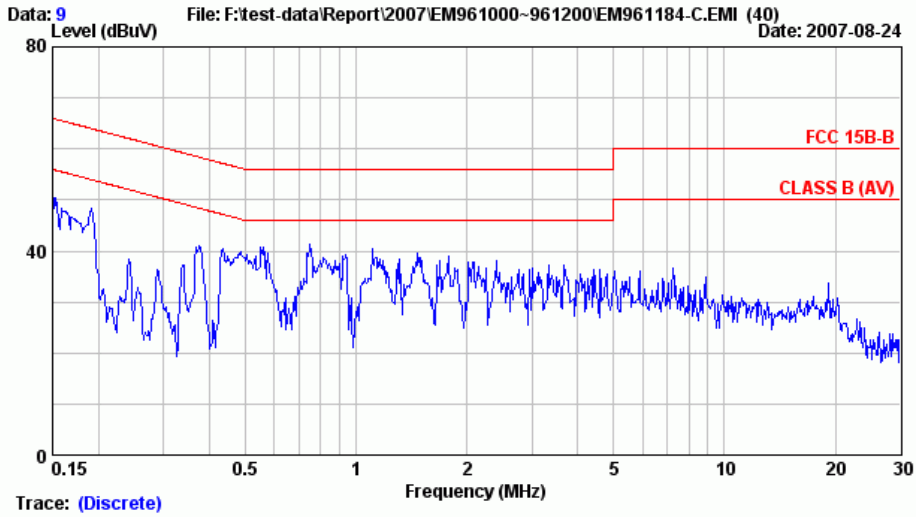

Site	: NO.3 Shielded Room	Data	: 9
Condition	: KNW-407	Phase	: LINE
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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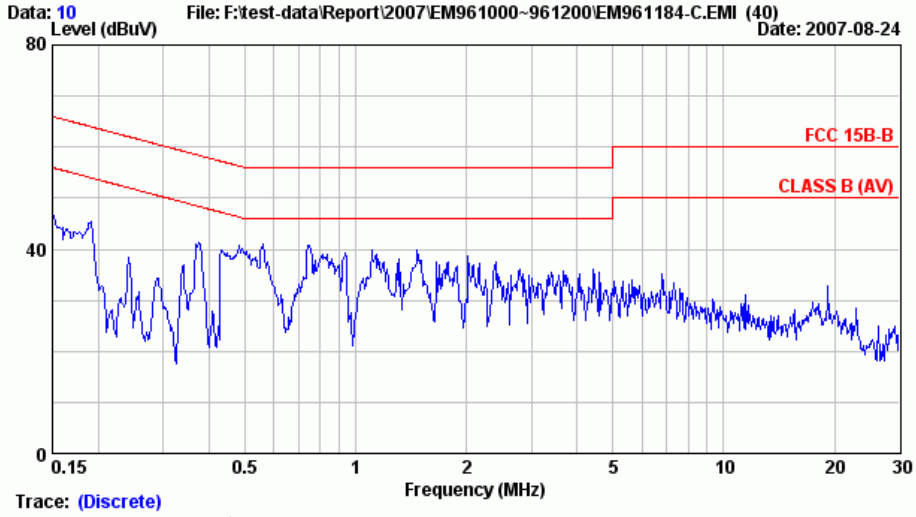

Site	: NO.3 Shielded Room	Data	: 10
Condition	: KNW-407	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: 25*C/42% ESCS30	Engineer:	Gary-Lin
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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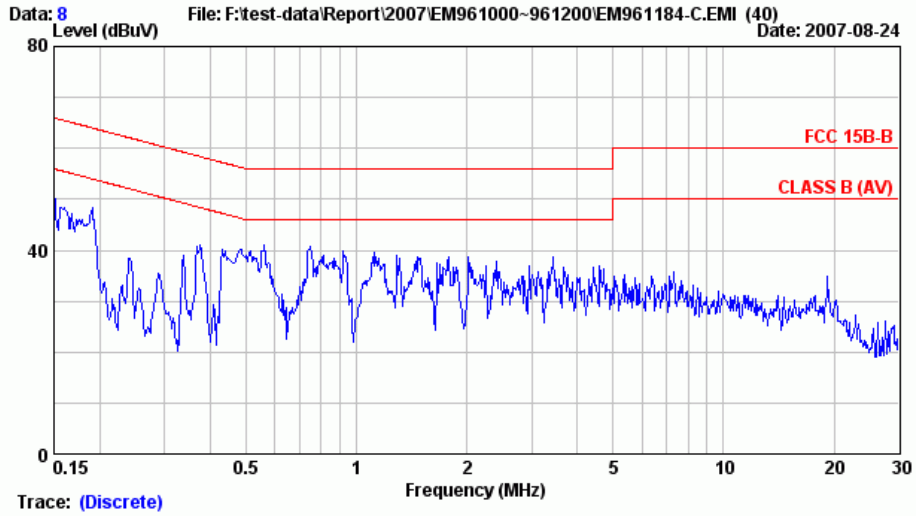


```
Site          : NO.3 Shielded Room          Data     : 8
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/60Hz(DVI)
```

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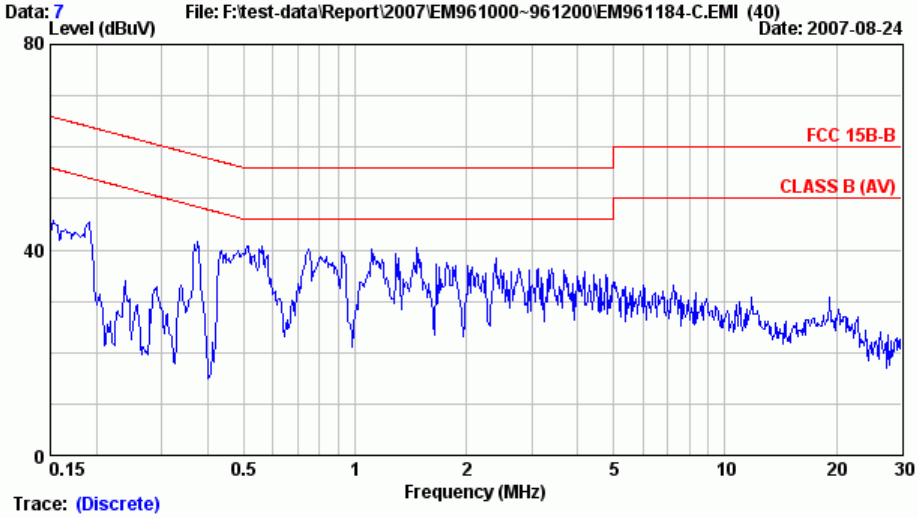


```
Site          : NO.3 Shielded Room          Data     : 7
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/60Hz(DVI)
```

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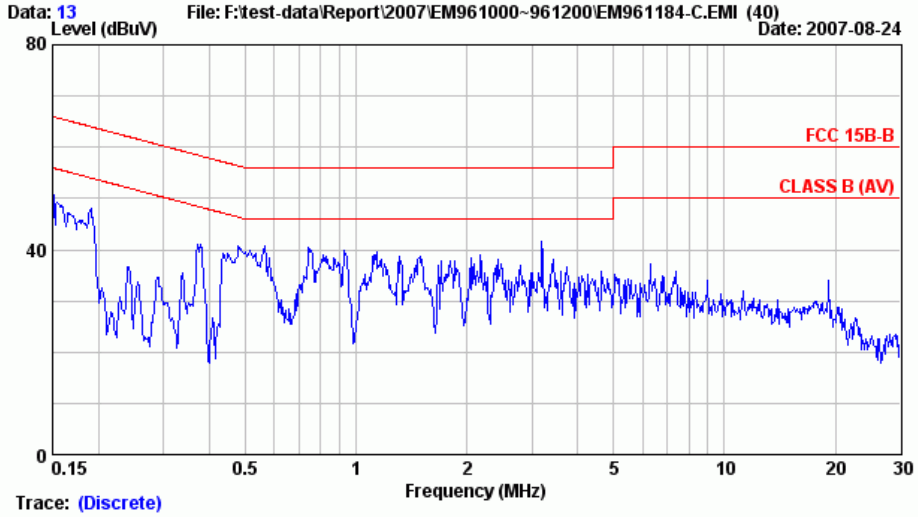


```
Site          : NO.3 Shielded Room          Data     : 13
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : S IN
```

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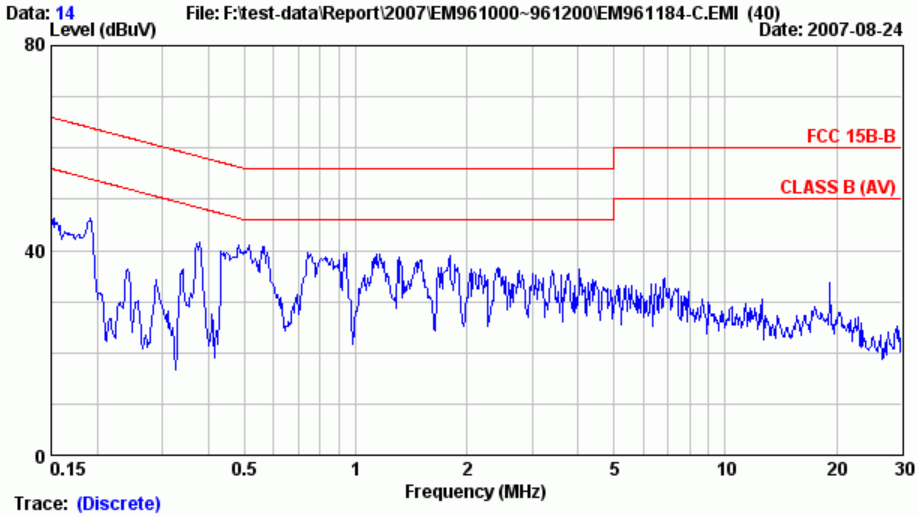


```
Site          : NO.3 Shielded Room          Data     : 14
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : S IN
```

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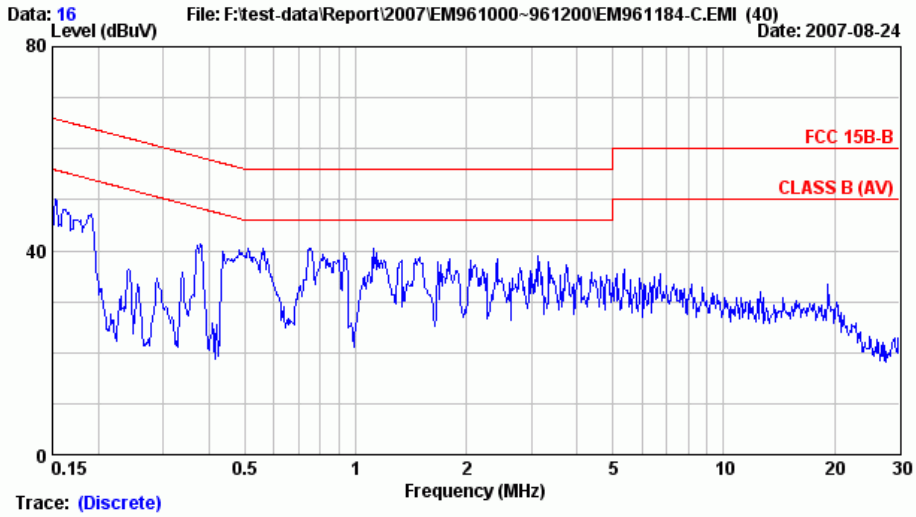


```
Site          : NO.3 Shielded Room          Data     : 16
Condition     : KNW-407                     Phase    : LINE
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : AV IN
```

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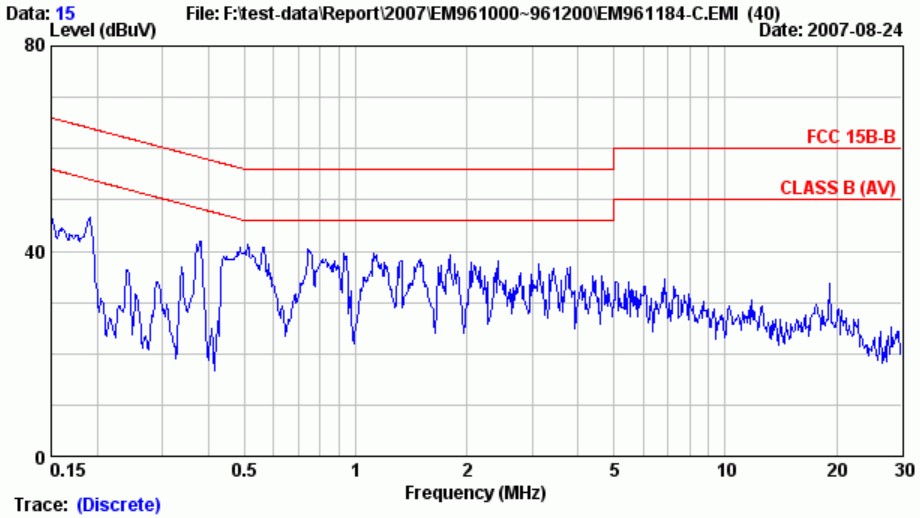


```
Site          : NO.3 Shielded Room          Data     : 15
Condition     : KNW-407                     Phase    : NEUTRAL
Limit         : FCC 15B-B
Env. / Ins.   : 25*C/42%  ESCS30            Engineer: Gary-Lin
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : AV IN
```

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Tel:+886-2-26092133 Fax:+886-2-26099303
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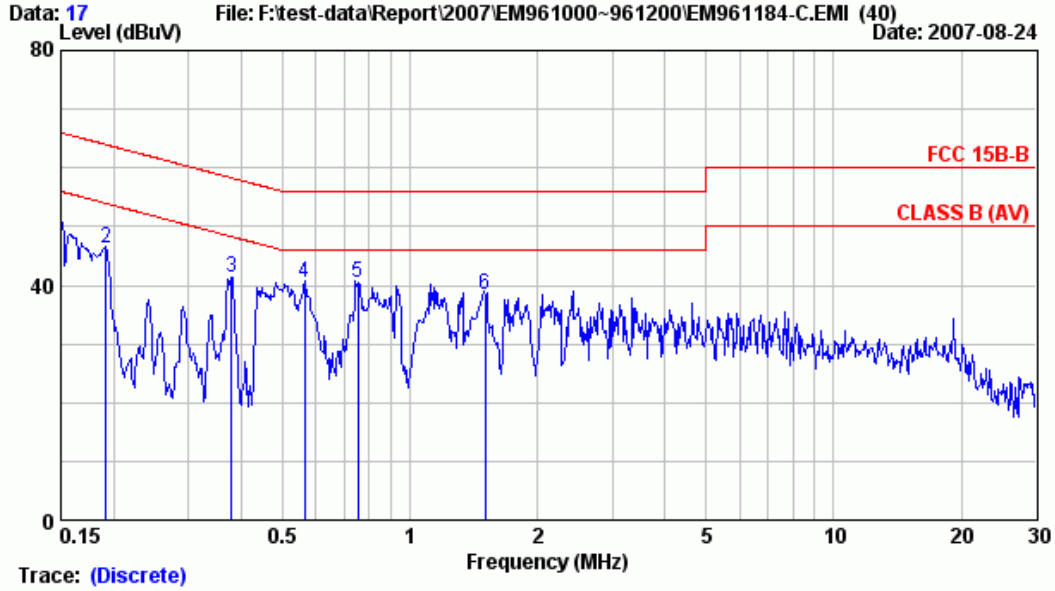

Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : COMPONENT IN

Data : 17
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.150	0.30	0.20	50.46	50.96	66.00	15.04	QP
2	0.191	0.21	0.20	46.03	46.44	63.98	17.53	QP
3	0.379	0.11	0.20	40.89	41.20	58.30	17.10	QP
4	0.564	0.10	0.20	40.20	40.50	56.00	15.51	QP
5	0.755	0.10	0.20	40.24	40.54	56.00	15.46	QP
6	1.503	0.10	0.40	38.03	38.53	56.00	17.47	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
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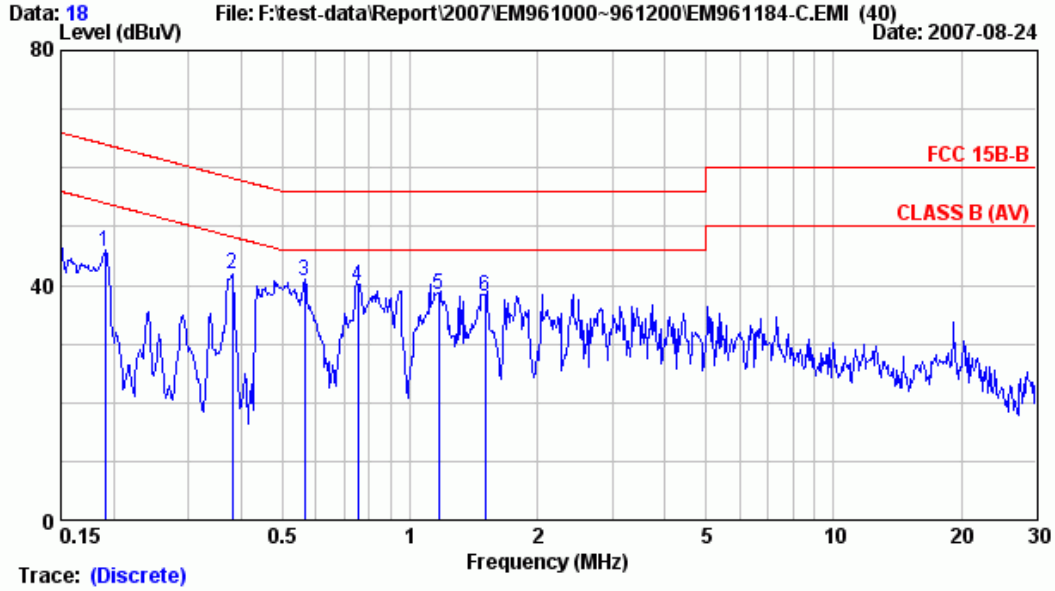

Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : COMPONENT IN

Data : 18
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.190	0.22	0.20	45.23	45.65	64.02	18.37	QP
2	0.381	0.11	0.20	41.59	41.90	58.25	16.36	QP
3	0.564	0.10	0.20	40.55	40.85	56.00	15.16	QP
4	0.755	0.10	0.20	39.65	39.95	56.00	16.05	QP
5	1.172	0.10	0.40	37.95	38.45	56.00	17.55	QP
6	1.503	0.10	0.40	37.51	38.01	56.00	17.99	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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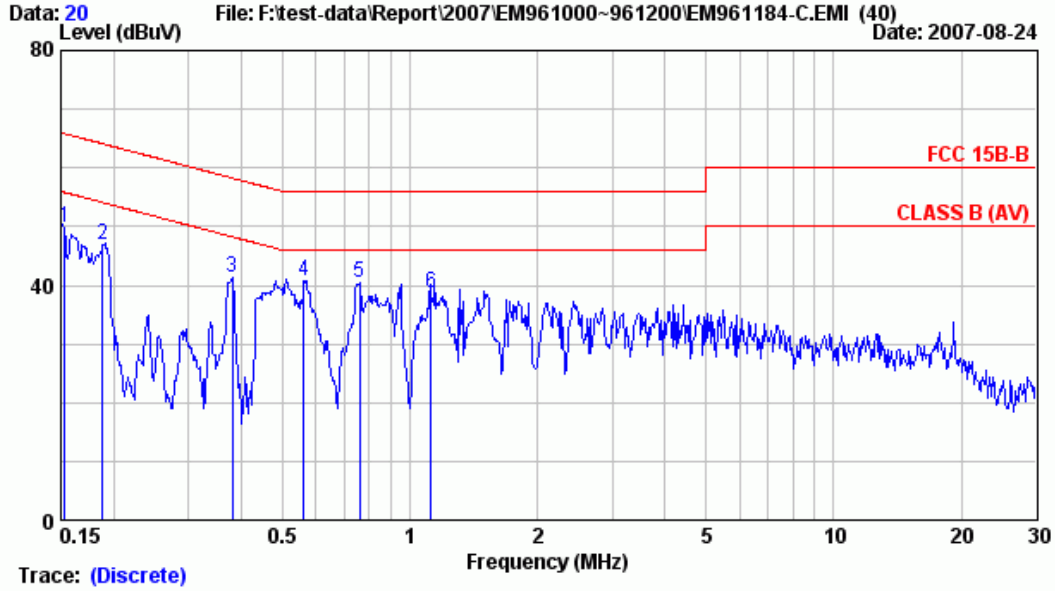

Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : SDI IN

Data : 20
Phase : LINE
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	0.29	0.20	49.18	49.67	65.82	16.15	QP
2	0.188	0.22	0.20	46.40	46.82	64.11	17.29	QP
3	0.381	0.11	0.20	41.07	41.38	58.25	16.88	QP
4	0.561	0.10	0.20	40.57	40.87	56.00	15.13	QP
5	0.759	0.10	0.20	40.03	40.33	56.00	15.68	QP
6	1.123	0.10	0.40	38.17	38.67	56.00	17.33	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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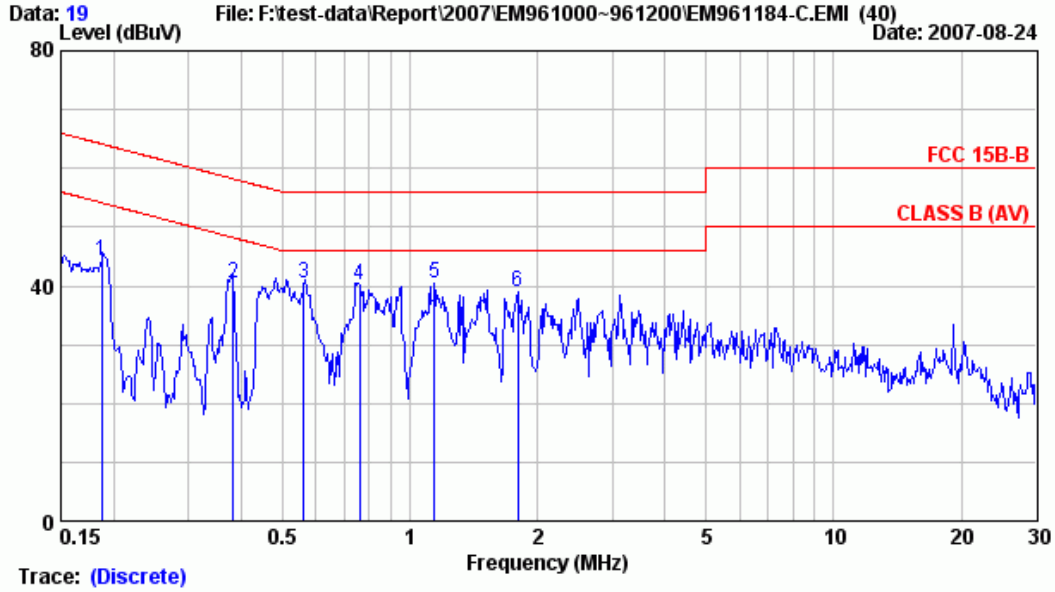


Site : NO.3 Shielded Room
Condition : KNW-407
Limit : FCC 15B-B
Env. / Ins. : 25*C/42% ESCS30
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac/60Hz
Test Mode : SDI IN

Data : 19
Phase : NEUTRAL
Engineer: Gary-Lin

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.187	0.22	0.20	43.79	44.21	64.15	19.94	QP
2	0.383	0.11	0.20	40.08	40.39	58.21	17.82	QP
3	0.561	0.10	0.20	40.21	40.51	56.00	15.49	QP
4	0.759	0.10	0.20	39.84	40.14	56.00	15.87	QP
5	1.141	0.10	0.40	39.80	40.30	56.00	15.70	QP
6	1.800	0.10	0.40	38.56	39.06	56.00	16.94	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the radiated emission measurement：

3.1.1. For Semi-Anechoic Chamber (For 30MHz to 1000MHz)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000134	Jun. 27, 07’	Jun. 26, 08’
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 03, 07’	Mar. 02, 08’
3.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 11, 07’	Apr. 10, 08’
4.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 11, 07’	Apr. 10, 08’

3.1.2. For No. 6 Open Area Test Site (For 30MHz to 1000MHz)

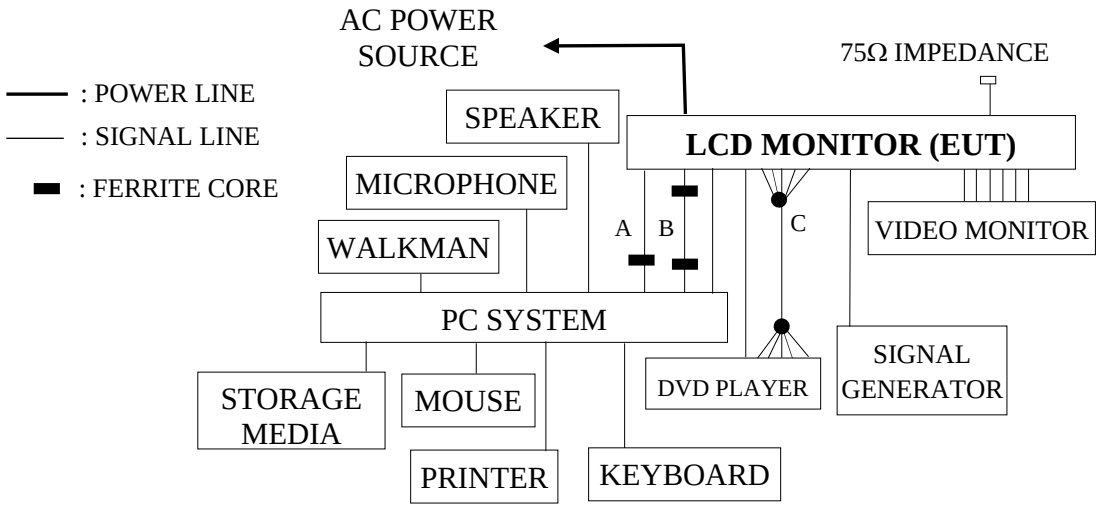
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000132	Jun. 05, 07’	Jun. 04, 08’
2.	Test Receiver	R&S	ESCS30	825442/020	Aug. 13, 07’	Aug. 12, 08’
3.	Amplifier	HP	8447D	2443A03938	N/A	N/A
4.	Bilog Antenna	Schaffner	CBL6112B	2818	Apr. 17, 07’	Apr. 16, 08’

3.1.3. For No. 6 Open Area Test Site (For Above 1GHz)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY42000132	Jun. 05, 07’	Jun. 04, 08’
2.	Amplifier	HP	8449B	3008A01284	Jun. 22, 07’	Jun. 21, 08’
3.	Horn Antenna	EMCO	3115	9609-4927	Jul. 03, 07’	Jul. 02, 08’

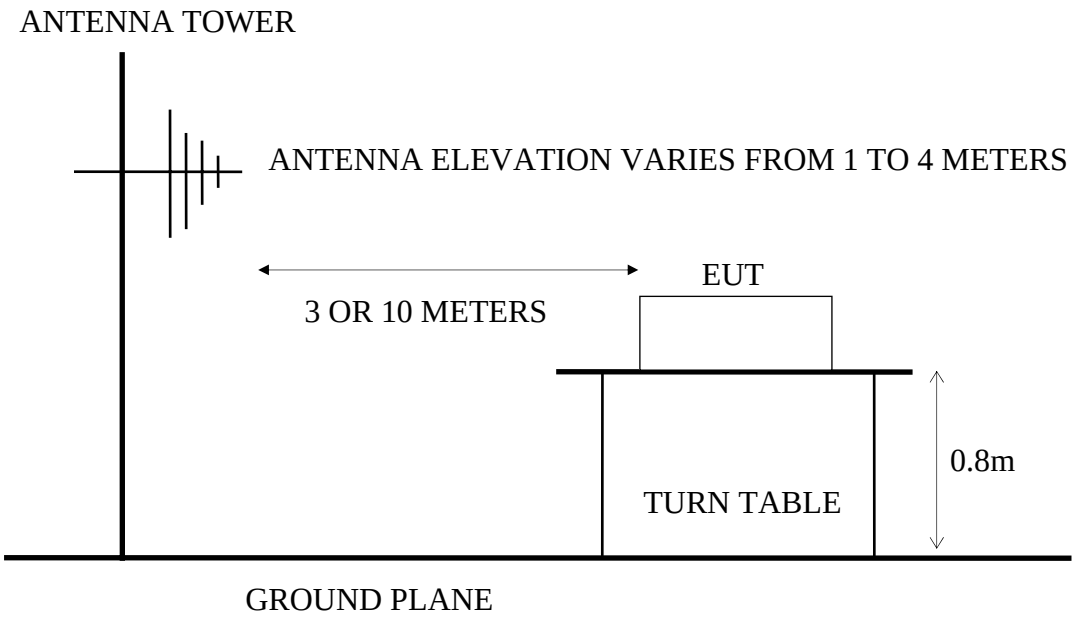
3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators

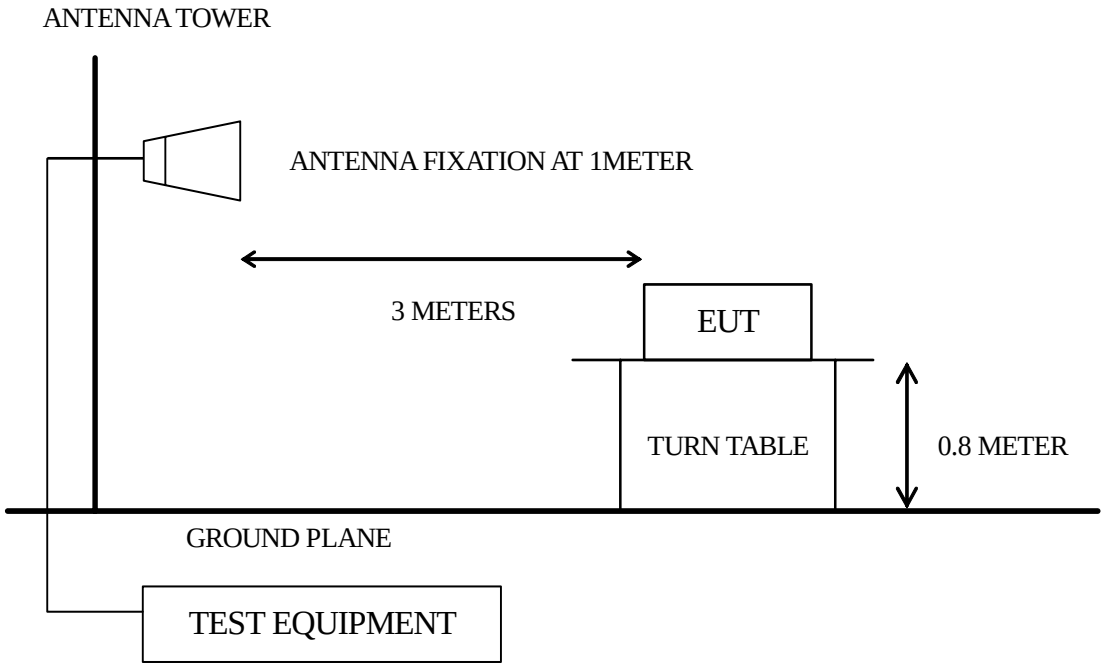


A : DVI CABLE
B : D-SUB CABLE
C : BNC CABLE (Video Cable*2+Component Cable*3)

3.2.2. Semi-Anechoic Chamber (3m) & Open Area Test Site (10m) Setup Diagram for 30-1000MHz



3.2.3. Open Area Test Site (3m) Setup Diagram for Above 1GHz



3.3. Radiation Emission Limit (§15.109/CISPR 22, Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBμV/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)
Above 1000	3	54.0 (Average)
Above 1000	3	74.0 (Peak)

Note **:** (1) The tighter limit applies at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.
(3) The 3m limit apply relation: L2 = L1(d1/d2)
(4) There is no over 1GHz limits in CISPR 22 standard. Therefore, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (g). The 3m limit apply relation: L2 = L1(d1/d2)

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT is same as used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5. except the test set up replaced by section 3.2.

3.6. Test Procedure

3.6.1. For Frequency Range 30MHz-1000MHz measurement at distance of 3m at semi-anechoic chamber and 10m at open area test site:

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT was set to 10 meters (or 3 meters at semi-anechoic chamber) away from the receiving antenna which was mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (biconical antenna & log periodic antenna at semi-anechoic chamber and calibrated bilog antenna at open area test site) were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003 and CISPR 22 on radiated measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with Peak detector at semi-anechoic chamber and all final readings of measurement were with Quasi-Peak detector at open area test site.

3.6.2. For frequency range Above 1GHz measurement at distance of 3m at open area test site:

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level, EUT was set to 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna was fixed at 1 meter high (maximum emission level receiving position) above the ground. A calibrated Horn Antenna was used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement, and both average and peak emission level were recorded form spectrum analyzer. In order to find the maximum emission level, all the interface cables were manipulated according to ANSI C63.4-2003 on radiated measurement.

The resolution bandwidth of spectrum analyzer E7405A was set at 1MHz.

The frequency range from 1GHz to 2GHz was checked with Peak & Average detector.

3.7. Radiated Emission Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

For 30MHz~1000MHz frequency range:

EUT with following test mode was measured within semi-anechoic chamber and all the pre-scanning waveform were listed in section 3.7.1.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 22, 2007 Temperature**:** 26℃ Humidity**:** 60%

The details of test modes and reference test data are as follows：

Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.			
			Horizontal		Vertical	
			30-300 MHz	300-1000 MHz	30-300 MHz	300-1000 MHz
1.	D-Sub	H Pattern, 800*600/60Hz	# 35	# 18	# 36	# 17
2.		H Pattern, 1280*1024/75Hz	# 39	# 14	# 40	# 13
3.		H Pattern, 1600*1200/60Hz	# 38	# 15	# 37	# 16
4.	DVI	H Pattern, 640*480/60Hz	# 6	# 7	# 5	# 8
5.		H Pattern, 1024*768/60Hz	# 3	# 10	# 4	# 9
6.		H Pattern, 1280*1024/60Hz	# 2	# 11	# 1	# 12
7.	S IN	Color Bar Image	# 34	# 19	# 33	# 20
8.	AV IN	Color Bar Image	# 31	# 22	# 32	# 21
9.	COMPONENT VIDEO IN	Color Bar Image	# 30	# 23	# 29	# 24
10.	SDI IN	Color Bar Image	# 27	# 26	# 28	# 25

The worst test mode **[Mode 6]** was measured at no. 6 open area test site and all the test results are listed in section 3.7.2.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 23, 2007 Temperature**:** 28℃ Humidity**:** 43%

The details of test modes and reference test data are as follows：

Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.	
			Horizontal	Vertical
***6.**	**DVI**	**H Pattern, 1280*1024/60Hz**	**# 4**	**# 3**

(*mode for maximum detected emission)

For Above 1GHz frequency range:
To select the test mode **[Mode 6]** was measured at no. 6 open area test site and all the test results are listed in section 3.7.3.

EUT：LCD Monitor Model No.: ER-191

Test Date**:** Aug. 23, 2007 Temperature**:** 28℃ Humidity**:** 43%

The details of test modes and reference test data are as follows：

Mode	Input	Display, Resolution/ Frequency	Reference Test Data No.			
			Horizontal		Vertical	
			Peak	Average	Peak	Average
6.	DVI	H Pattern, 1280*1024/60Hz	# 5	# 6	# 8	# 7

3.7.1. Radiated Emission Measurement Results at Semi-Anechoic Chamber (For 30MHz -1000MHz)

AUDIX TECHNOLOGY Corp. EMC Laboratory
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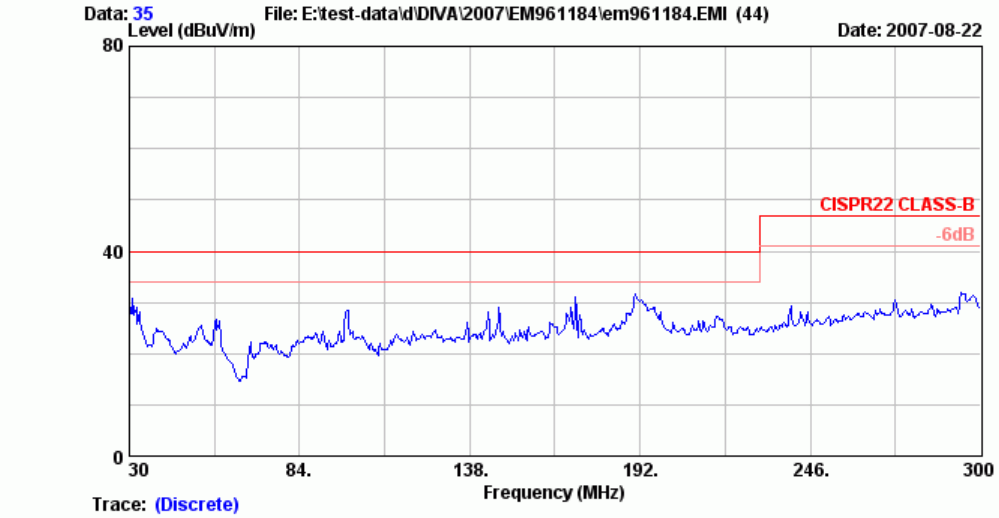
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 35
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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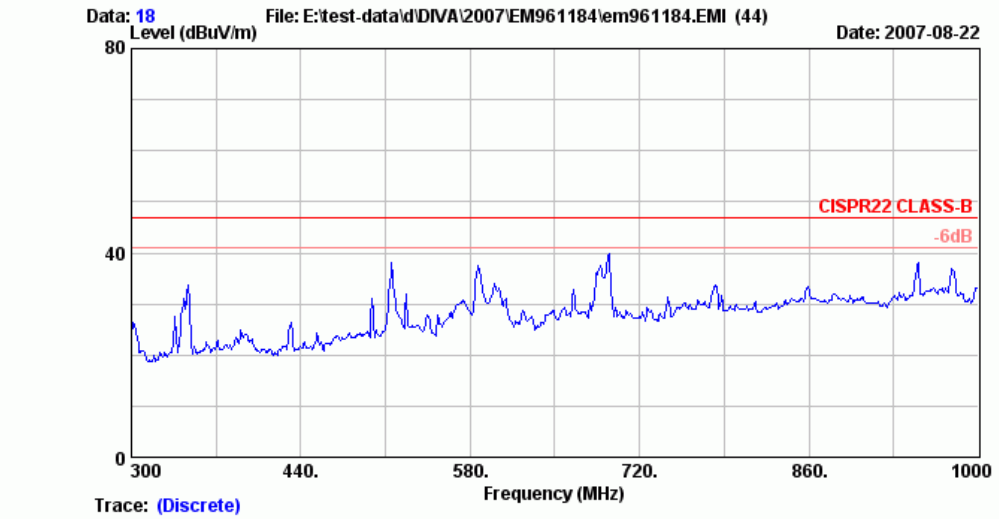
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 18
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 800*600/60Hz(D-SUB)		

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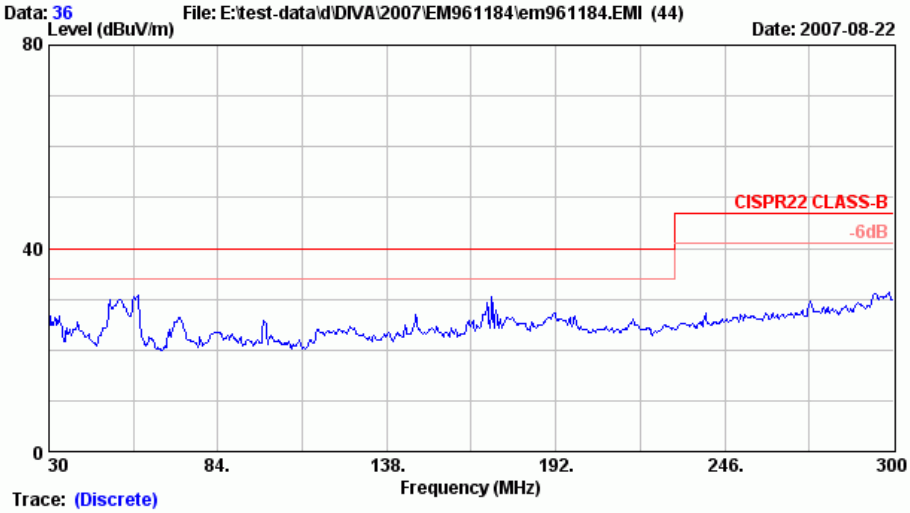

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 36
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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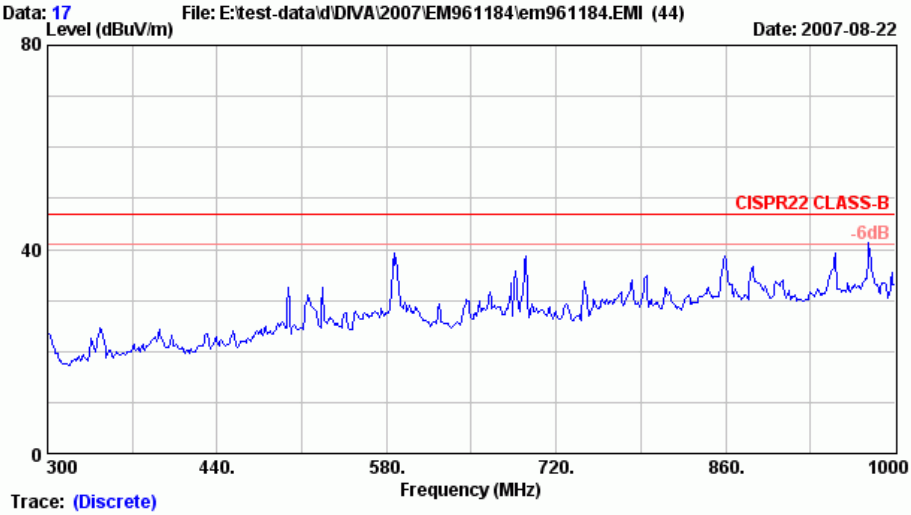
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 17
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 800*600/60Hz(D-SUB)
```

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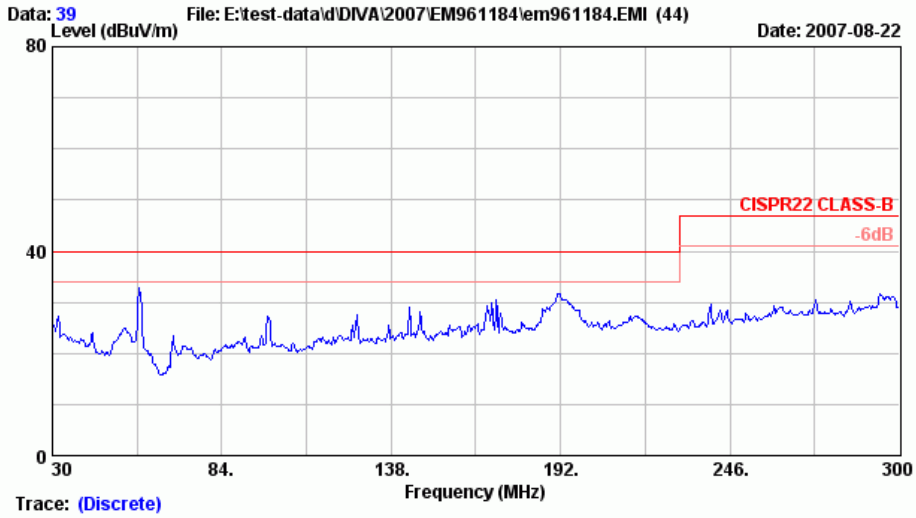

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 39
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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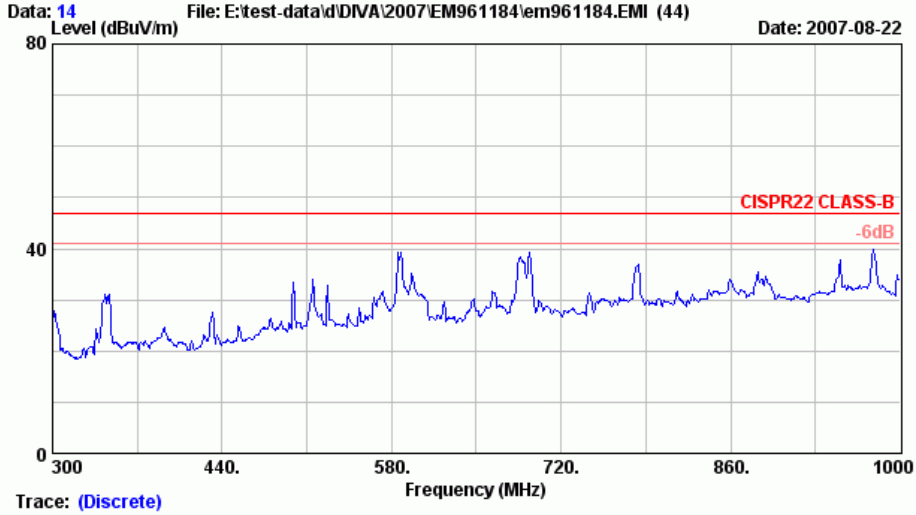
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 14
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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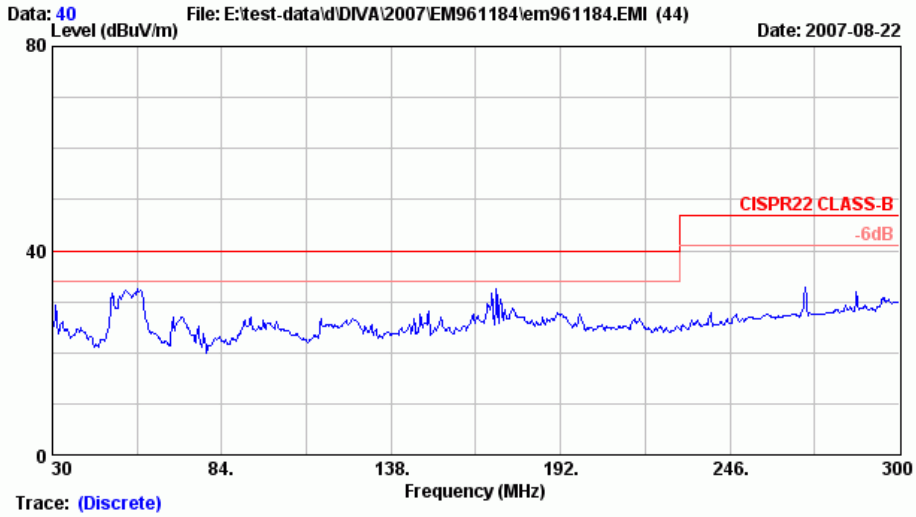
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 40
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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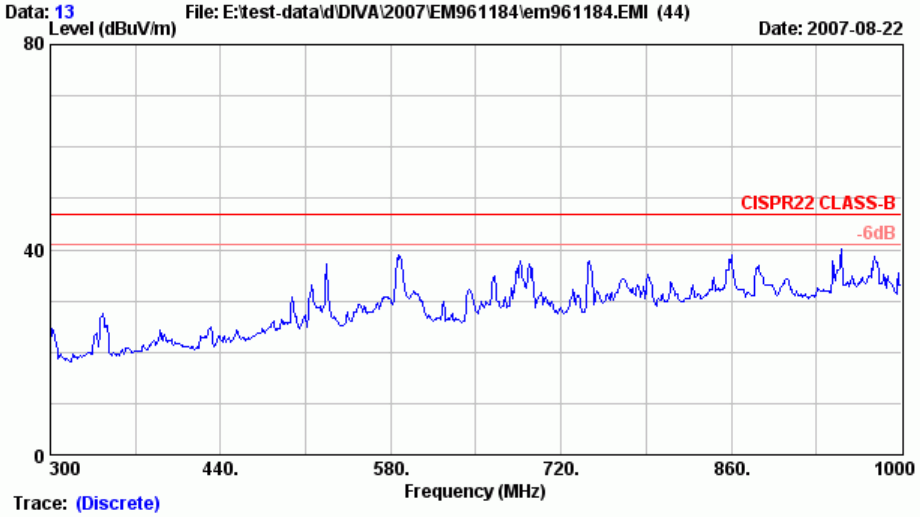
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 13
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/75Hz(D-SUB)		

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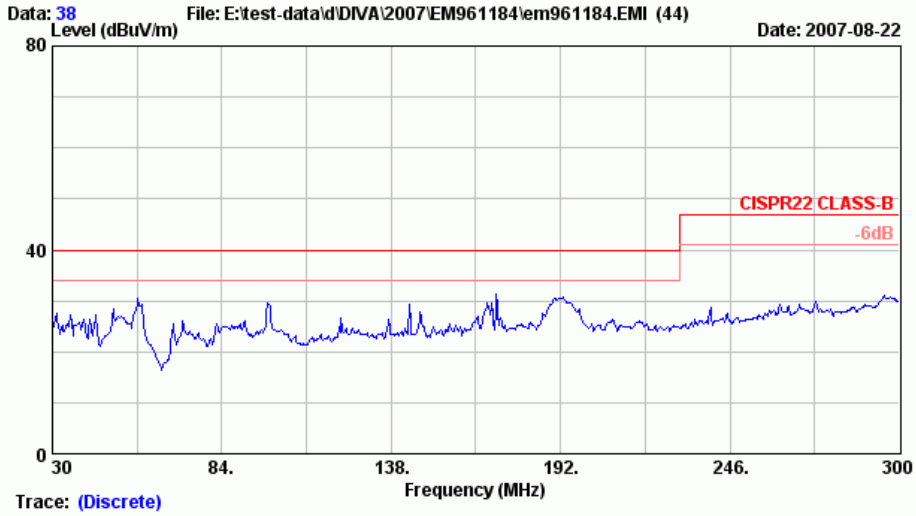

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 38
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1600*1200/60Hz(D-SUB)
```

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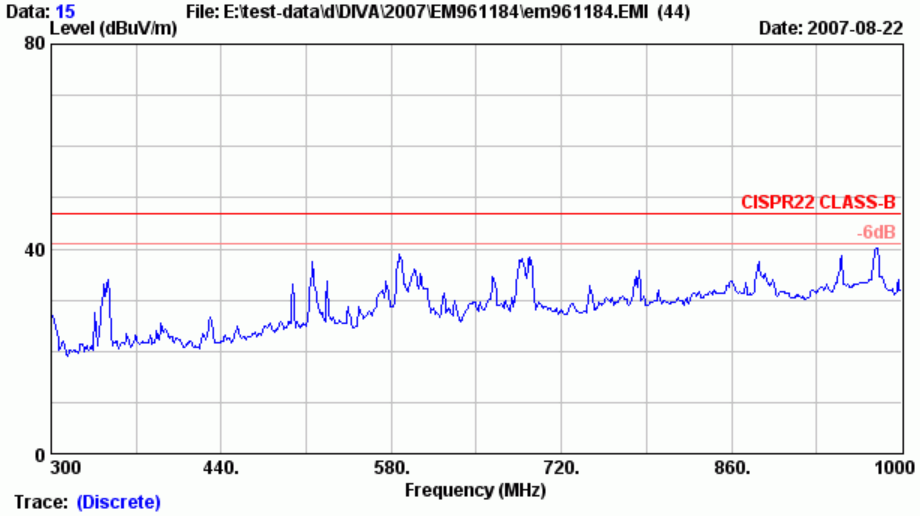

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 15
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1600*1200/60Hz(D-SUB)
```

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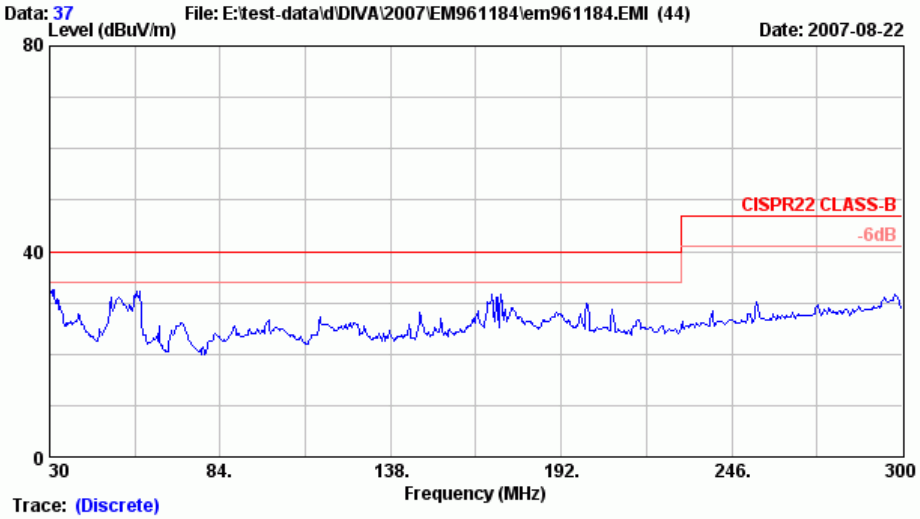
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 37
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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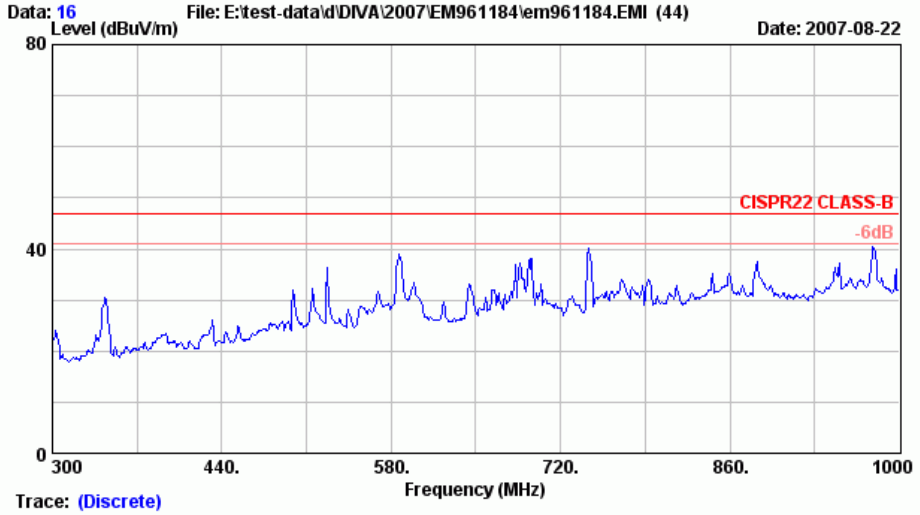
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 16
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1600*1200/60Hz(D-SUB)		

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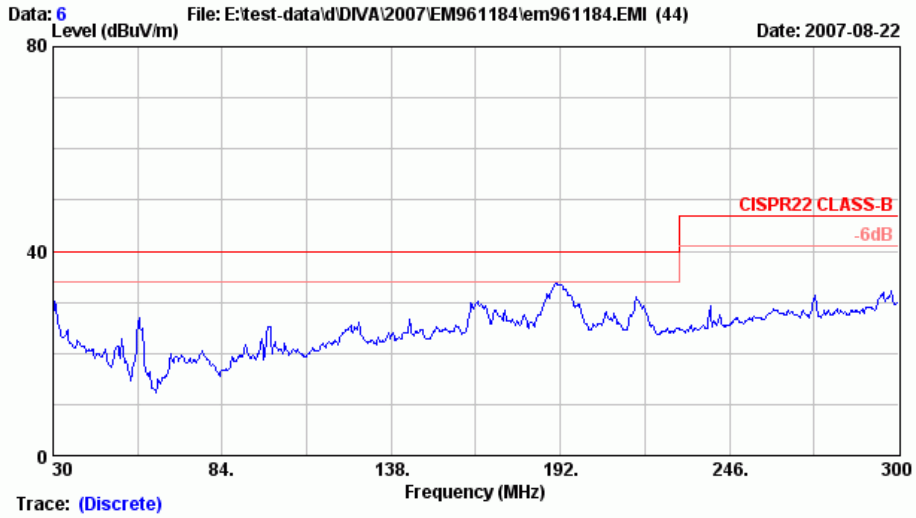
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 6
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 640*480/60Hz(DVI)		

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Tel:02-26092133 Fax:02-26099303
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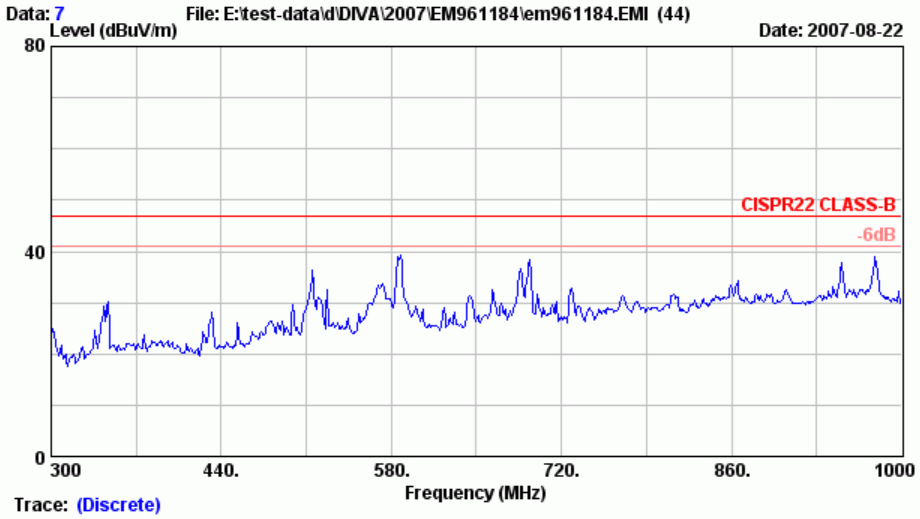

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 7
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 640*480/60Hz(DVI)		

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Tel:02-26092133 Fax:02-26099303
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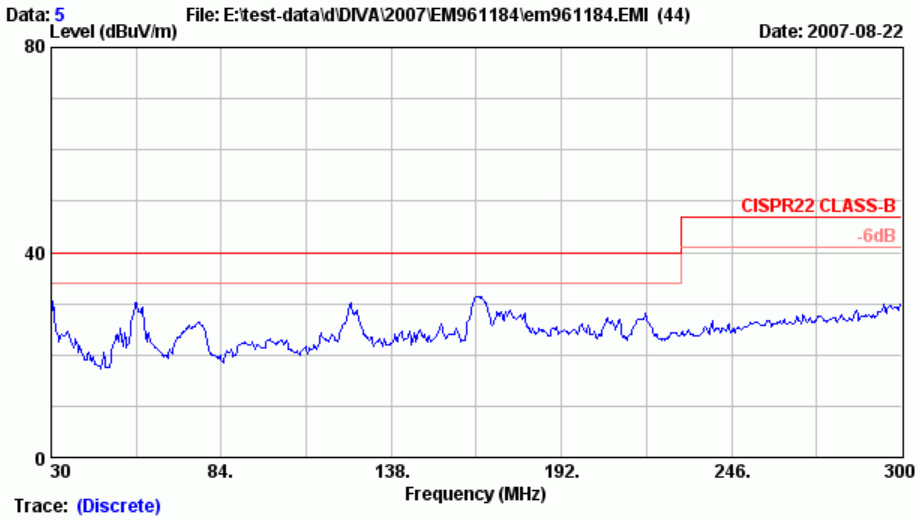

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 5
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 640*480/60Hz(DVI)
```

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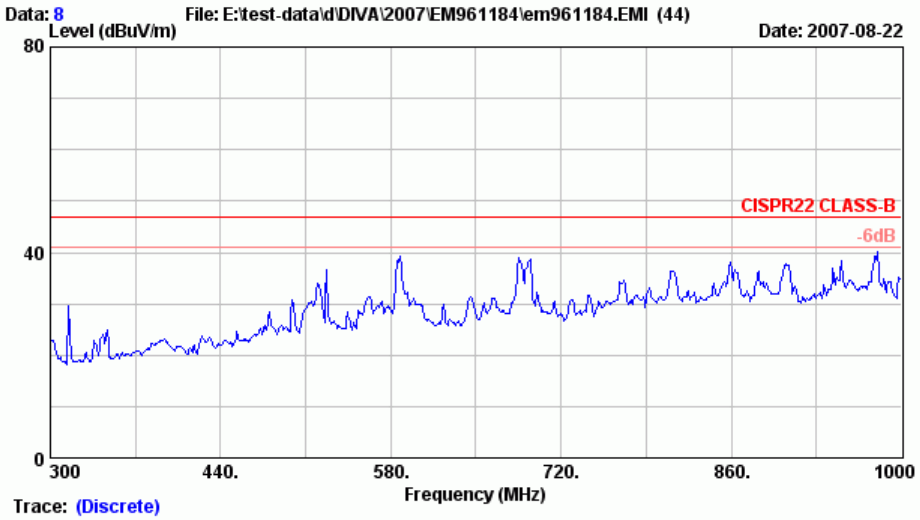

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 8
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 640*480/60Hz(DVI)
```

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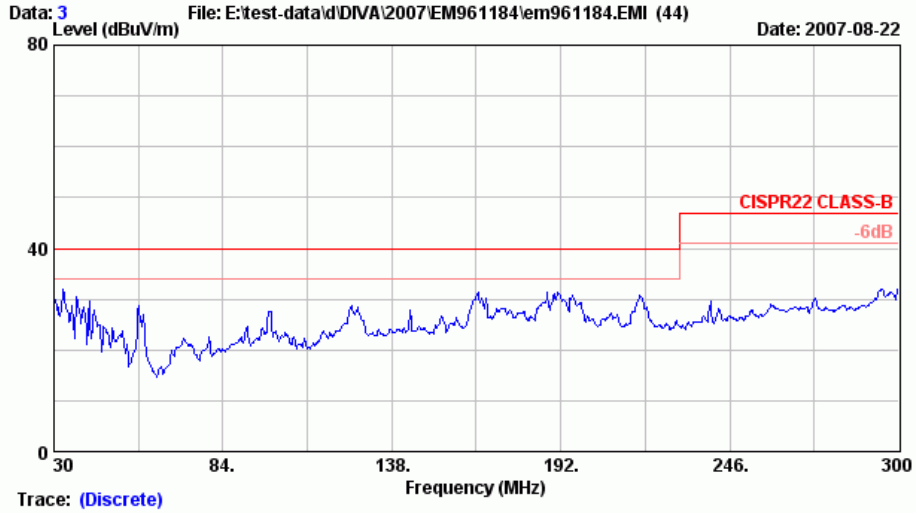

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 3
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1024*768/60Hz(DVI)
```

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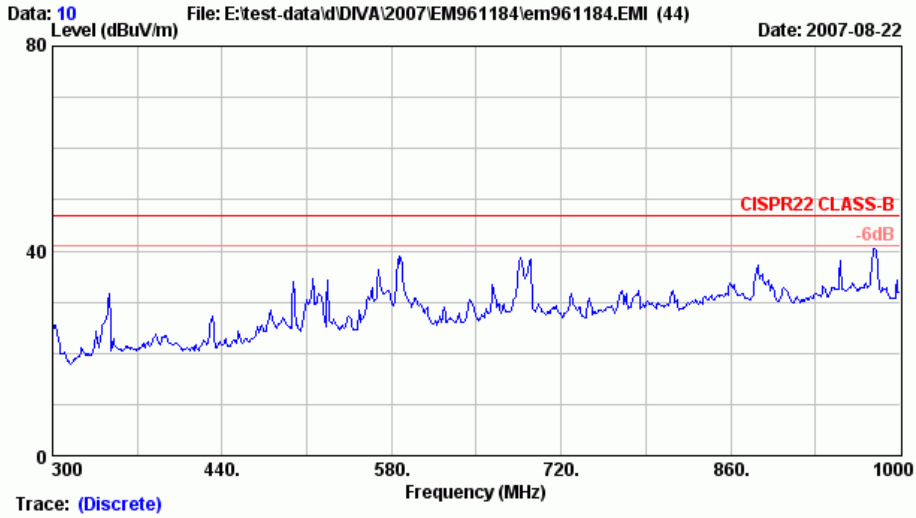

Trace: (Discrete)

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Site no.      : A/C Chamber                Data no.   : 10
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1024*768/60Hz(DVI)
```

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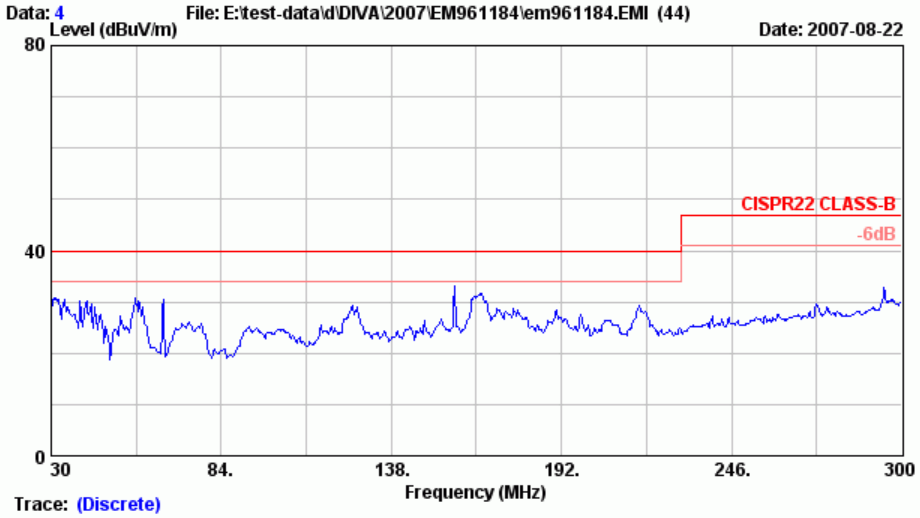

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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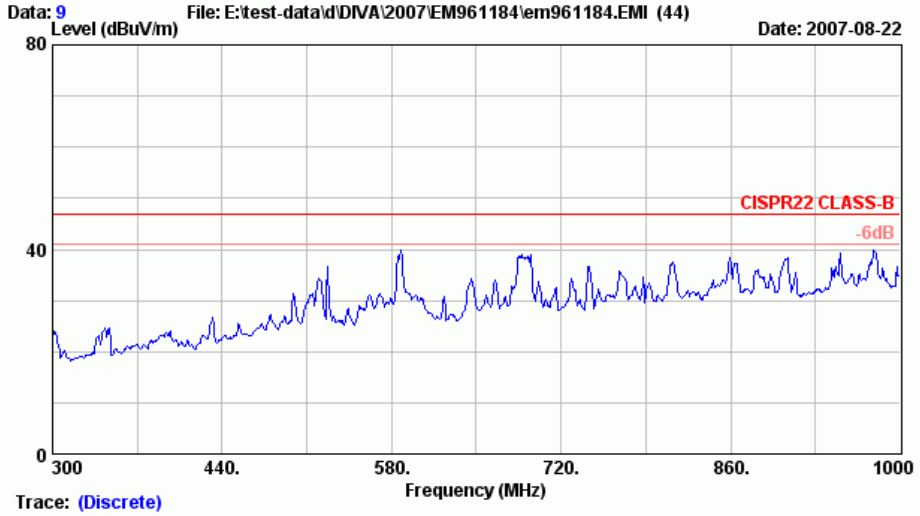

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 9
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1024*768/60Hz(DVI)		

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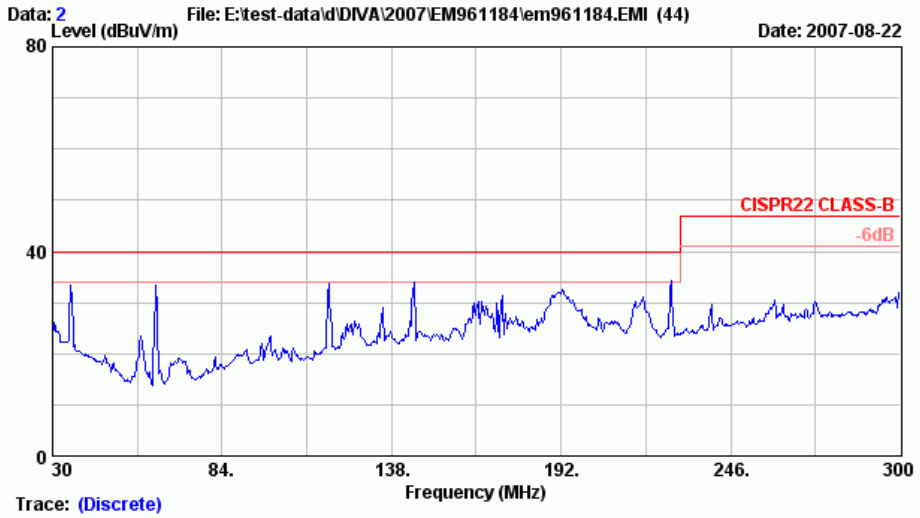

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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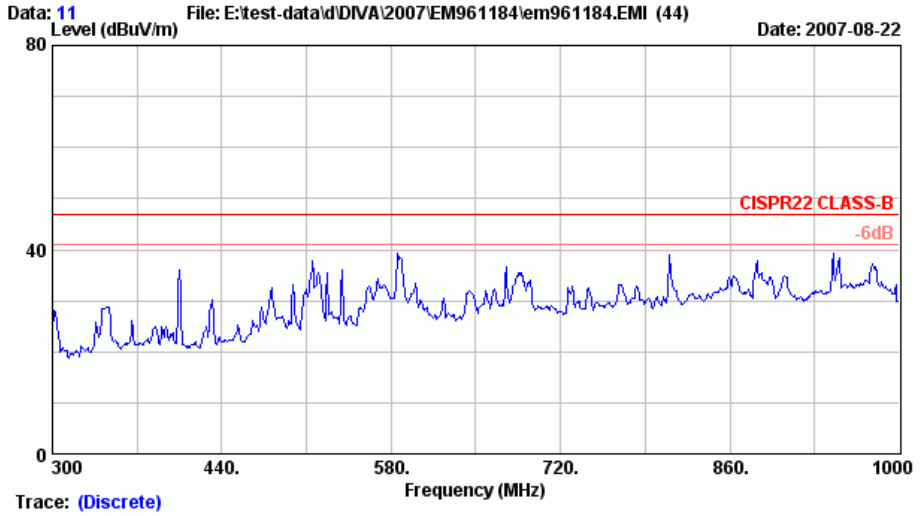

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 11
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: 1280*1024/60Hz(DVI)		

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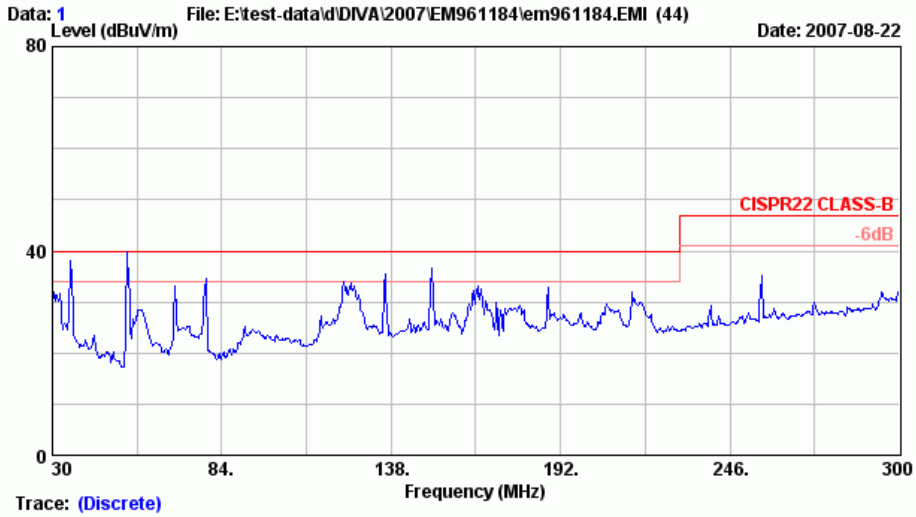
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

```
Site no.      : A/C Chamber              Data no.   : 1
Dis. / Ant.   : 3m   VBA6106A(1264)2006  Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%         Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/60Hz(DVI)
```

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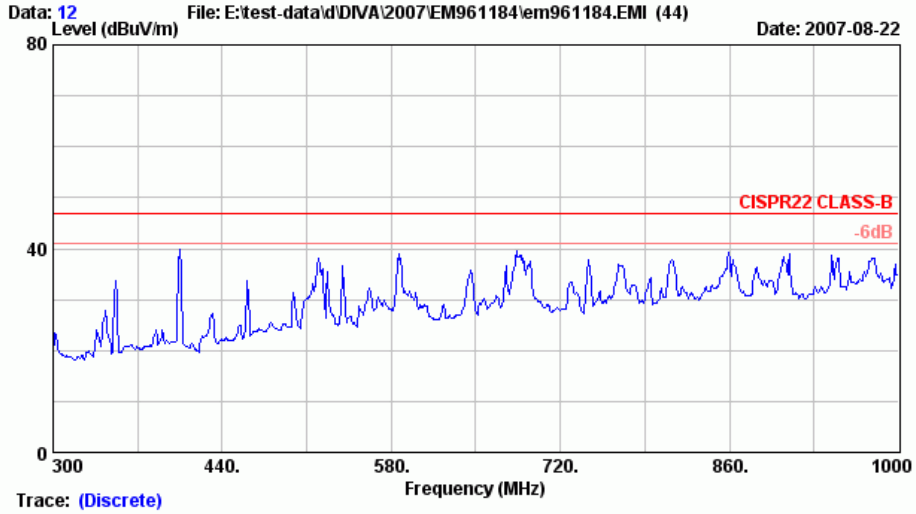

Trace: (Discrete)

```
Site no.      : A/C Chamber              Data no.   : 12
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%         Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : 1280*1024/60Hz(DVI)
```

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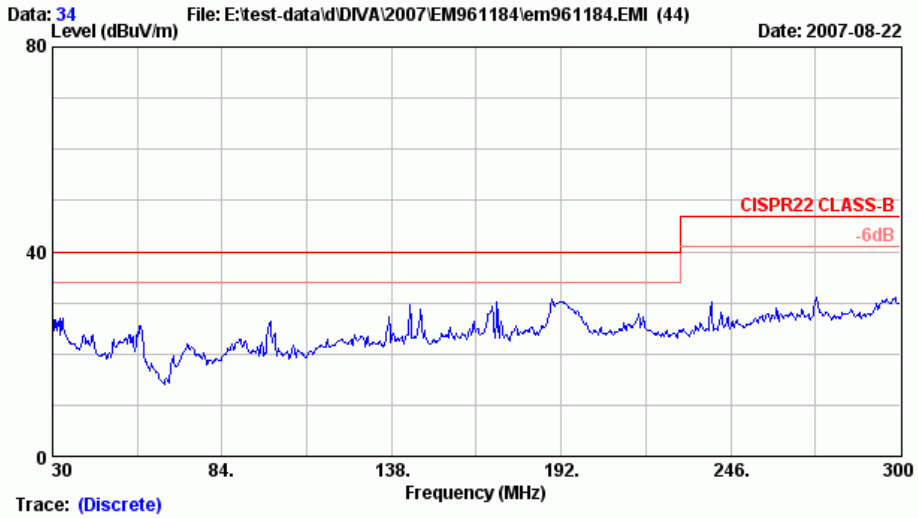

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 34
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : S IN
```

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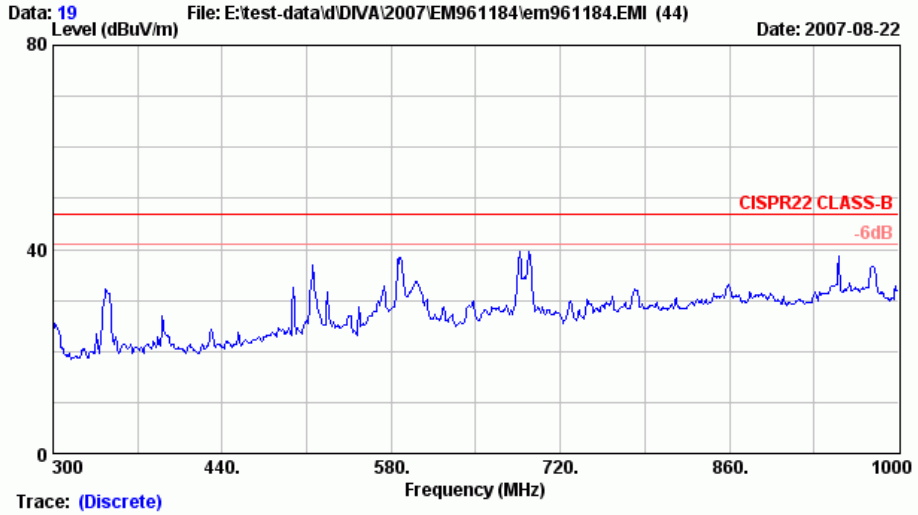

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 19
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : S IN
```

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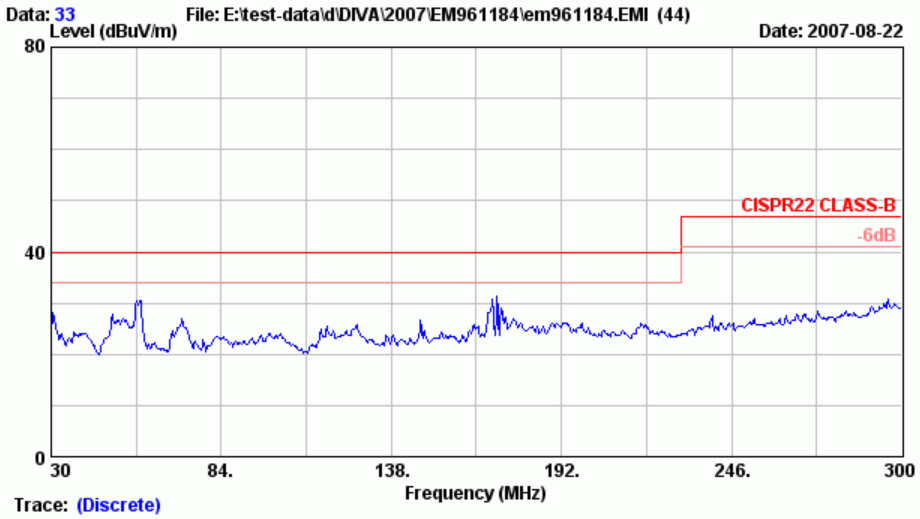
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 33
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: S IN		

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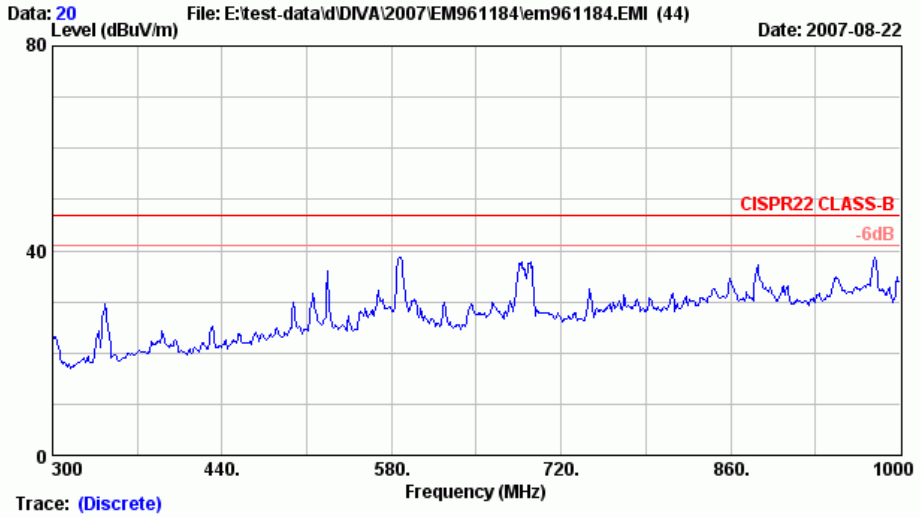
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 20
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: S IN		

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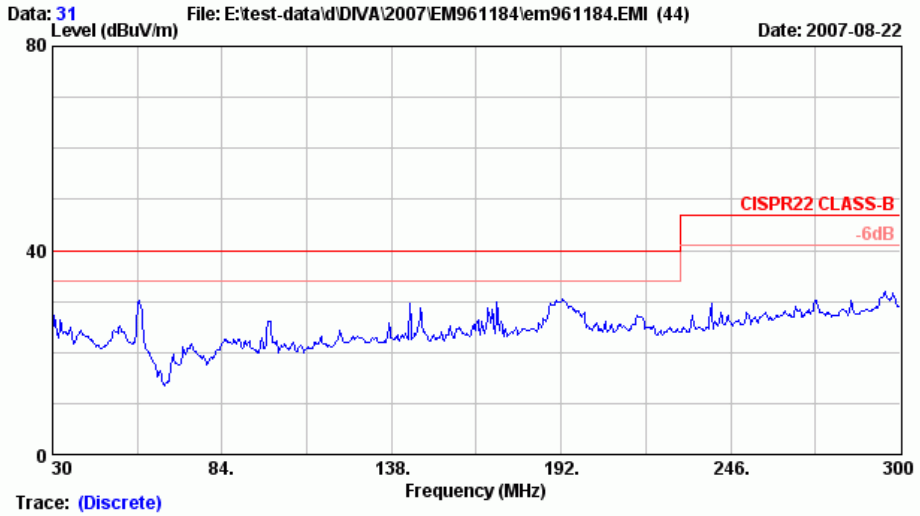
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 31
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: AV IN		

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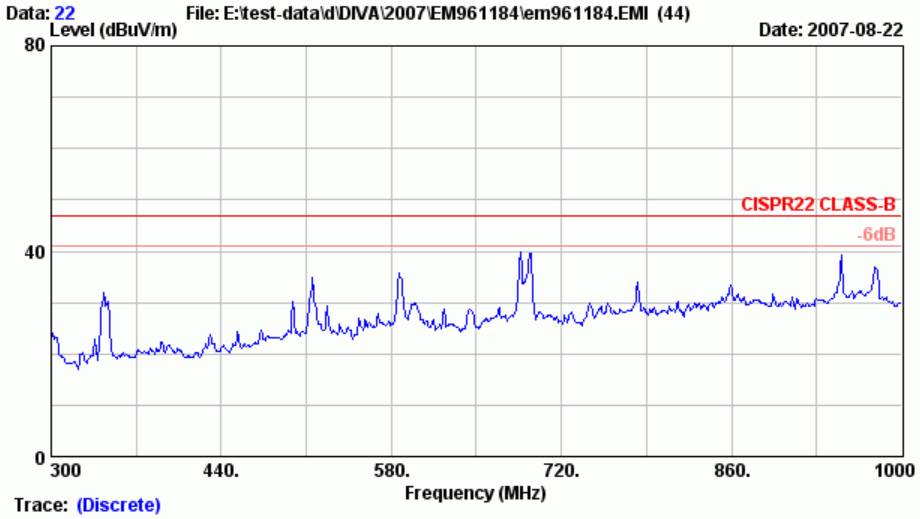

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 22
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: AV IN		

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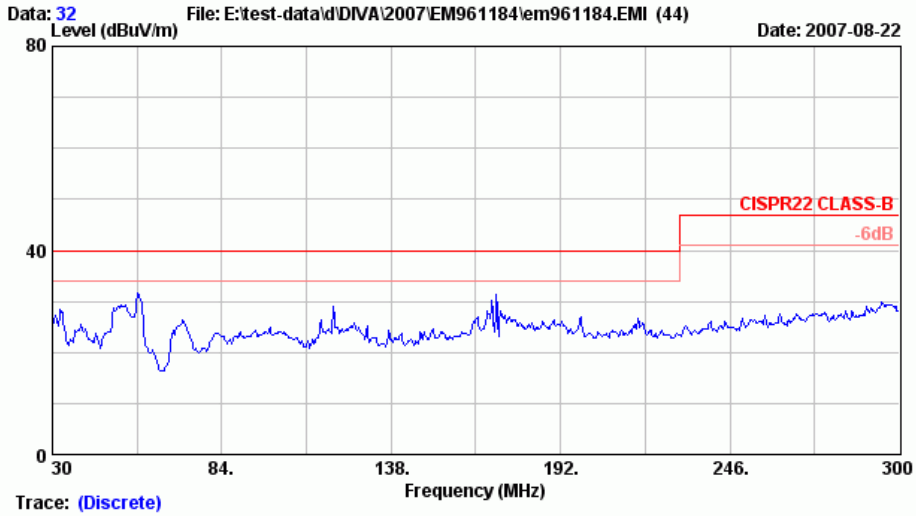
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 32
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: AV IN		

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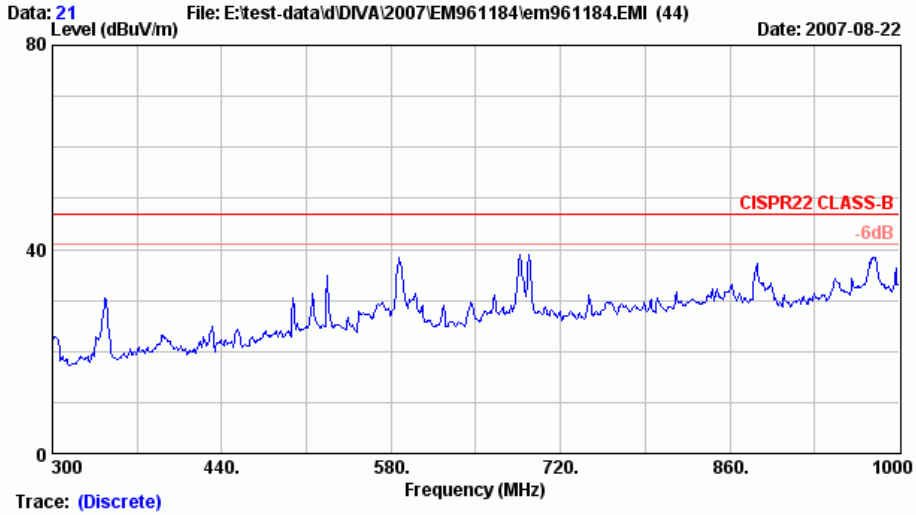
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 21
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: AV IN		

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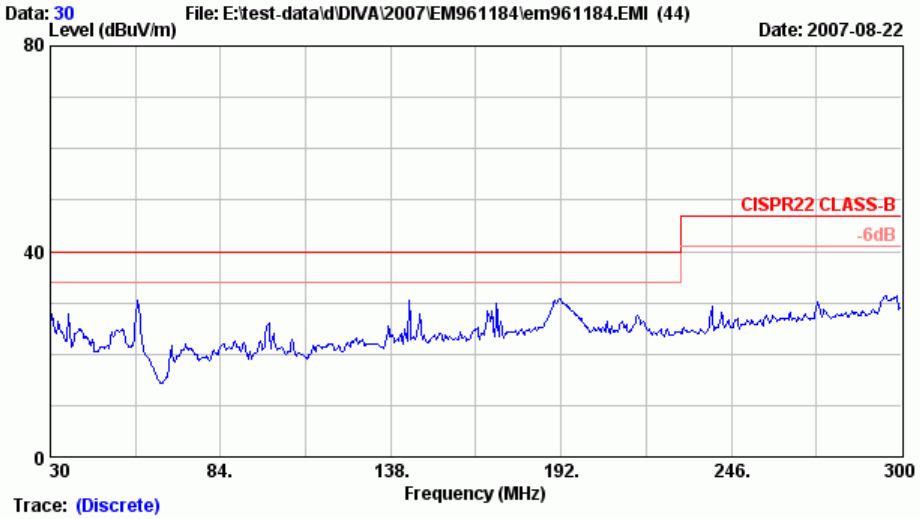

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 30
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: COMPONENT IN		

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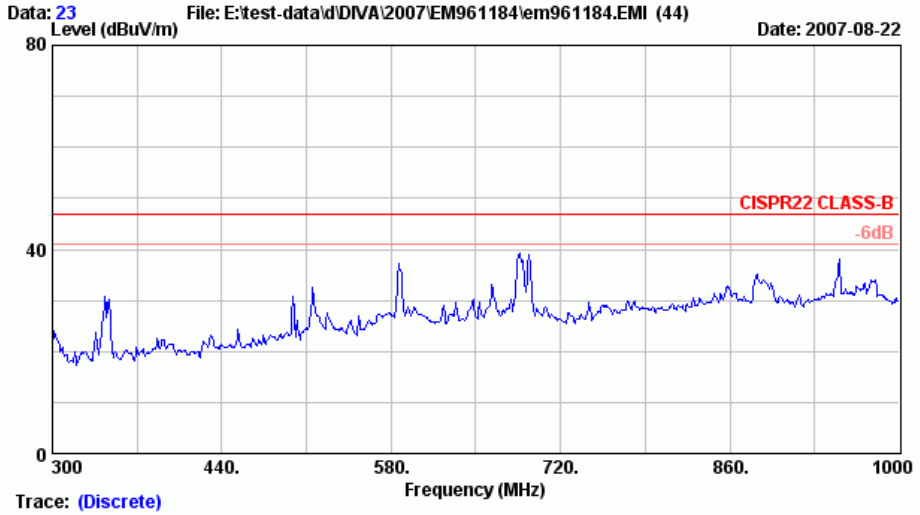

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 23
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: COMPONENT IN		

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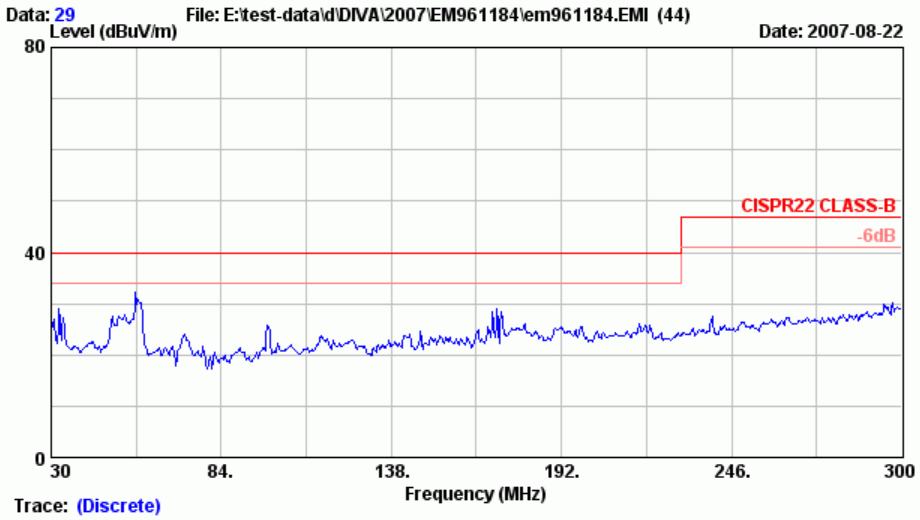

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 29
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: COMPONENT IN		

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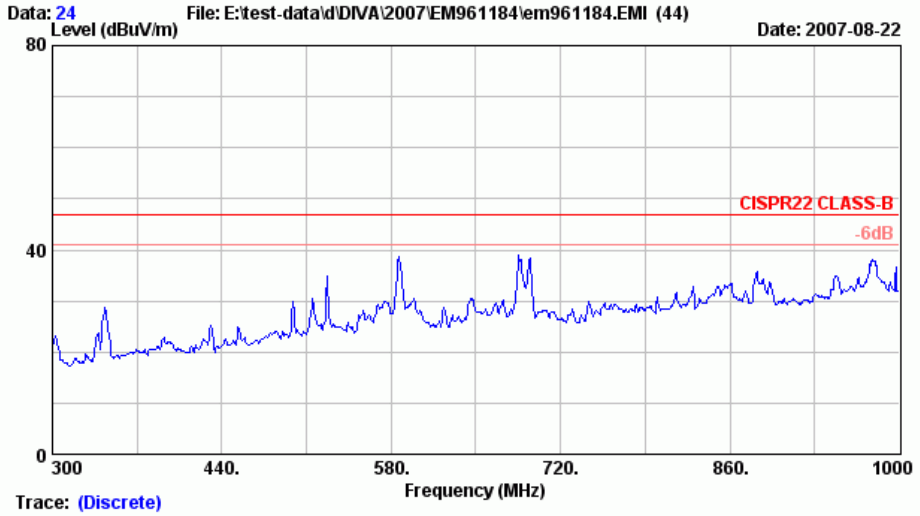
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 24
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: VERTICAL
Limit	: CISPR22 CLASS-B		
Env. / Ins.	: E4403B 26*C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-191		
Power Rating	: 120Vac/60Hz		
Test Mode	: COMPONENT IN		

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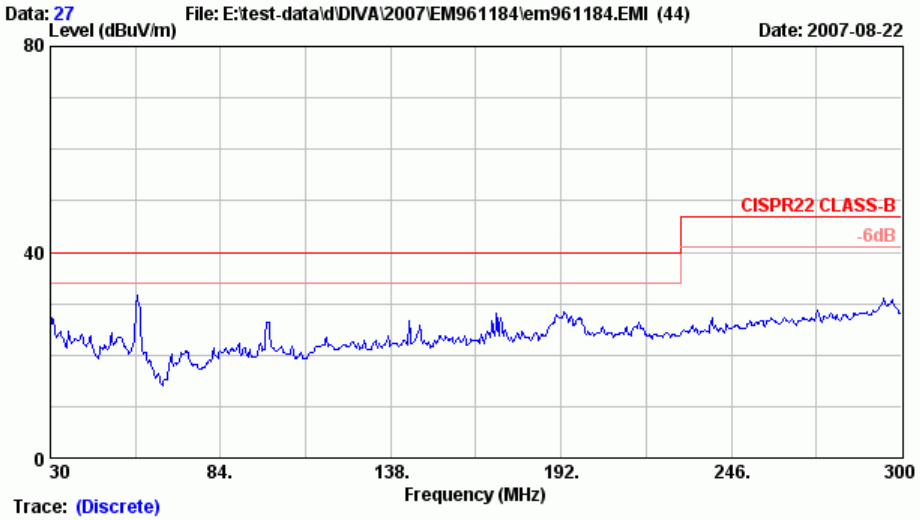


```
Site no.      : A/C Chamber                Data no.   : 27
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : SDI IN
```

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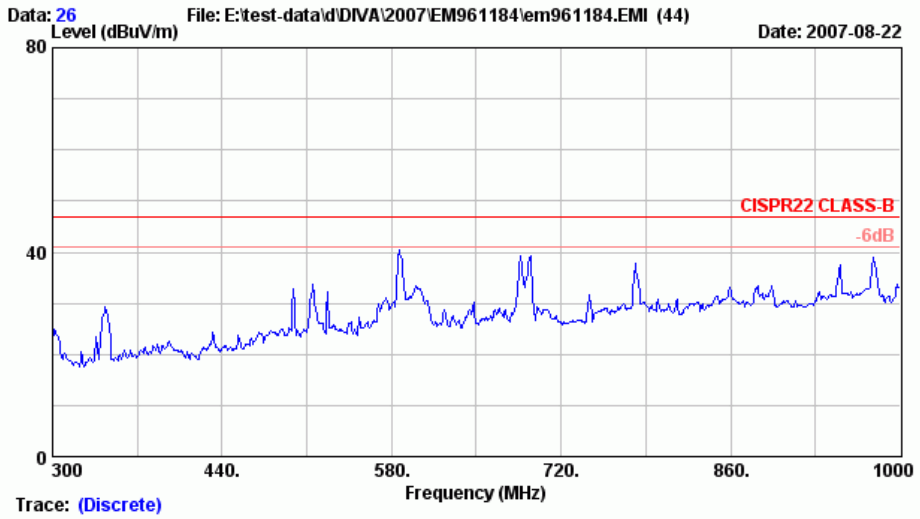


```
Site no.      : A/C Chamber                Data no.   : 26
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : HORIZONTAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : SDI IN
```

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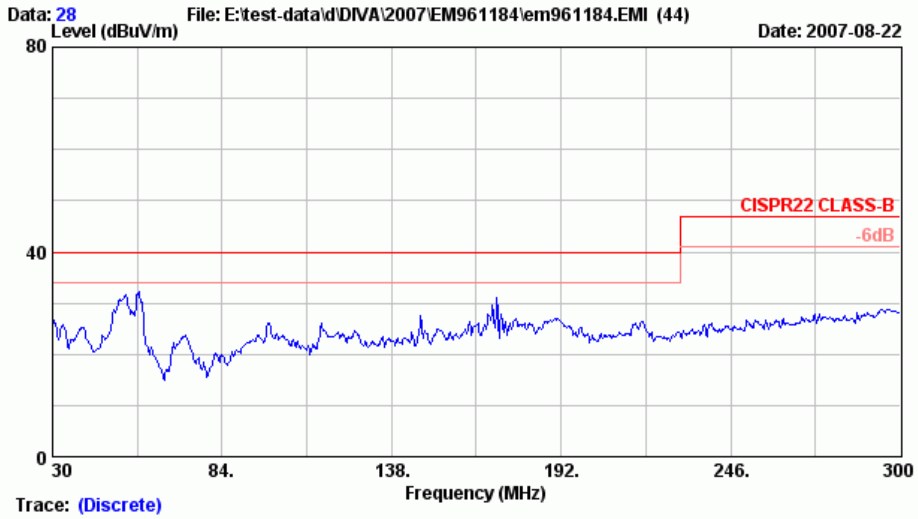

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 28
Dis. / Ant.   : 3m   VBA6106A(1264)2006    Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : SDI IN
```

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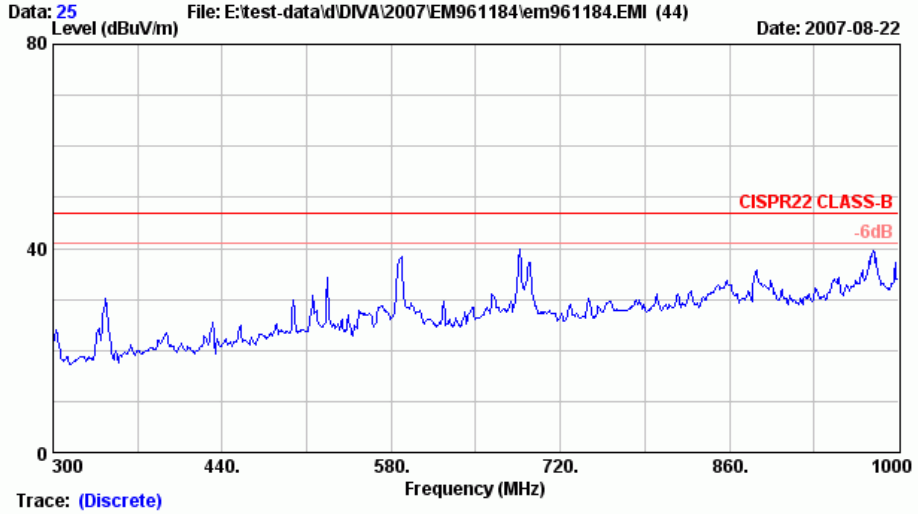

Trace: (Discrete)

```
Site no.      : A/C Chamber                Data no.   : 25
Dis. / Ant.   : 3m   UHALP9108A(0139)2006  Ant. pol.  : VERTICAL
Limit         : CISPR22 CLASS-B
Env. / Ins.   : E4403B  26*C/60%           Engineer   : Cater Chou
EUT           : LCD Monitor  M/N:ER-191
Power Rating  : 120Vac/60Hz
Test Mode     : SDI IN
```

3.7.2. Radiated Emission Measurement Results at Open Area Test Site (For 30MHz to 1000MHz)

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No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
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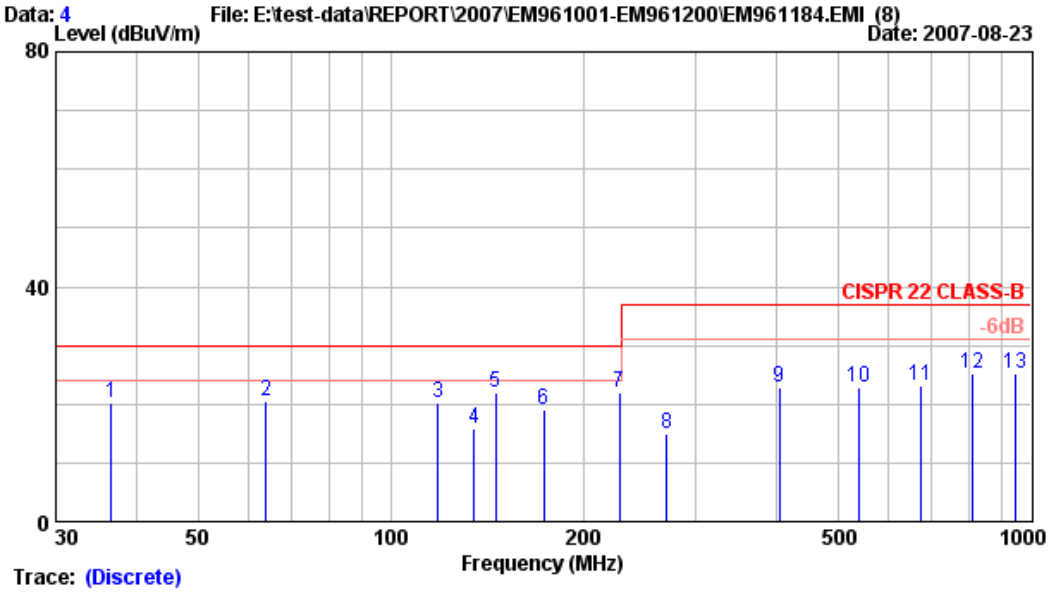

Site no. : NO.6 OPEN SITE Data no. : 4
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : HORIZONTAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 28*C /43 % ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac / 60Hz
Test Mode : 1280*1024/60 DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	36.590	14.37	0.68	5.21	20.26	30.00	9.74	
2	63.926	5.77	1.11	13.70	20.57	30.00	9.43	
3	118.598	12.66	1.37	6.17	20.21	30.00	9.79	
4	135.000	11.91	1.45	2.44	15.80	30.00	14.20	
5	145.934	11.18	1.50	9.19	21.87	30.00	8.13	
6	173.270	9.93	1.71	7.28	18.92	30.00	11.08	
7	227.942	10.38	1.92	9.71	22.00	30.00	8.00	*
8	270.000	13.22	2.09	-0.28	15.02	37.00	21.98	
9	405.000	16.31	2.60	3.82	22.74	37.00	14.26	
10	540.000	18.53	3.02	1.43	22.98	37.00	14.02	
11	675.000	19.11	3.57	0.38	23.06	37.00	13.94	
12	810.000	20.37	3.83	1.11	25.31	37.00	11.69	
13	945.000	20.71	4.06	0.41	25.18	37.00	11.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 227.942MHz with corrected signal level of 22.00dBμV/m (limit is 30dBμV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 180°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

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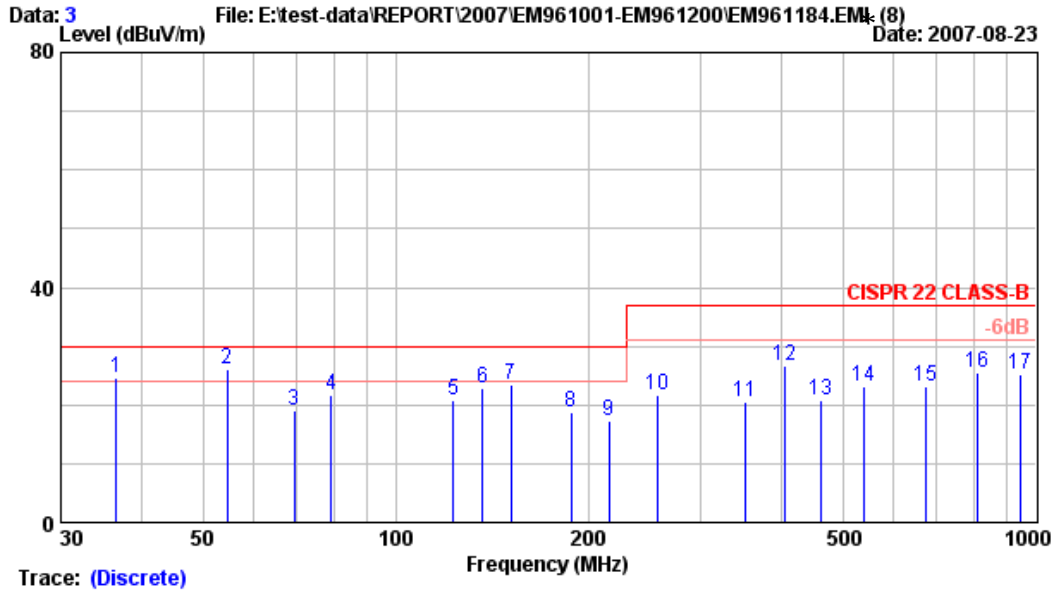
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw



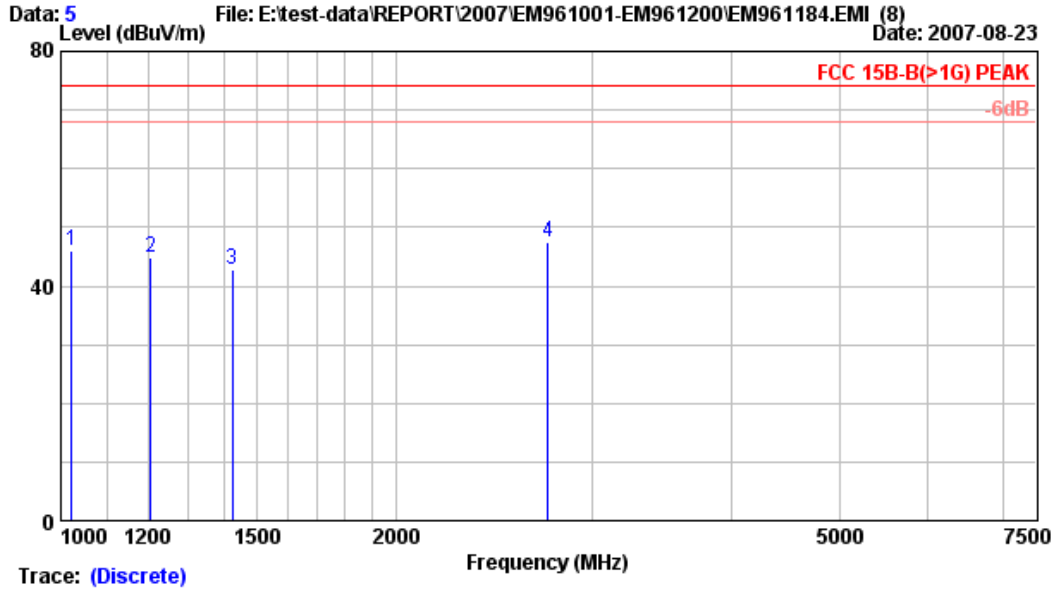
Site no. : NO.6 OPEN SITE Data no. : 3
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : VERTICAL
Limit : CISPR 22 CLASS-B
Env. / Ins. : 28*C /43 % ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac / 60Hz
Test Mode : 1280*1024/60 DVI

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	36.630	14.37	0.68	9.57	24.62	30.00	5.38	
2	54.503	5.63	0.96	19.63	26.22	30.00	3.78	*
3	69.505	6.83	1.19	11.06	19.08	30.00	10.92	
4	79.380	8.09	1.17	12.49	21.76	30.00	8.24	
5	123.255	12.36	1.41	6.96	20.72	30.00	9.28	
6	136.635	11.86	1.46	9.48	22.79	30.00	7.21	
7	151.384	10.71	1.57	11.30	23.58	30.00	6.42	
8	188.261	9.41	1.80	7.58	18.79	30.00	11.21	
9	215.601	9.57	1.88	5.92	17.37	30.00	12.63	
10	256.611	13.20	2.03	6.35	21.58	37.00	15.42	
11	352.301	14.82	2.53	3.08	20.42	37.00	16.58	
12	405.000	16.31	2.60	7.86	26.78	37.00	10.22	
13	461.661	17.03	2.80	0.97	20.79	37.00	16.21	
14	540.000	18.53	3.02	1.51	23.06	37.00	13.94	
15	675.000	19.11	3.57	0.34	23.02	37.00	13.98	
16	810.000	20.37	3.83	1.21	25.41	37.00	11.59	
17	945.000	20.71	4.06	0.47	25.24	37.00	11.76	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 54.503MHz with corrected signal level of 26.22dBµV/m (limit is 30dBµV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 70°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

3.7.3. Radiated Emission Measurement Results at Open Area Test Site (For Above 1GHz)

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw

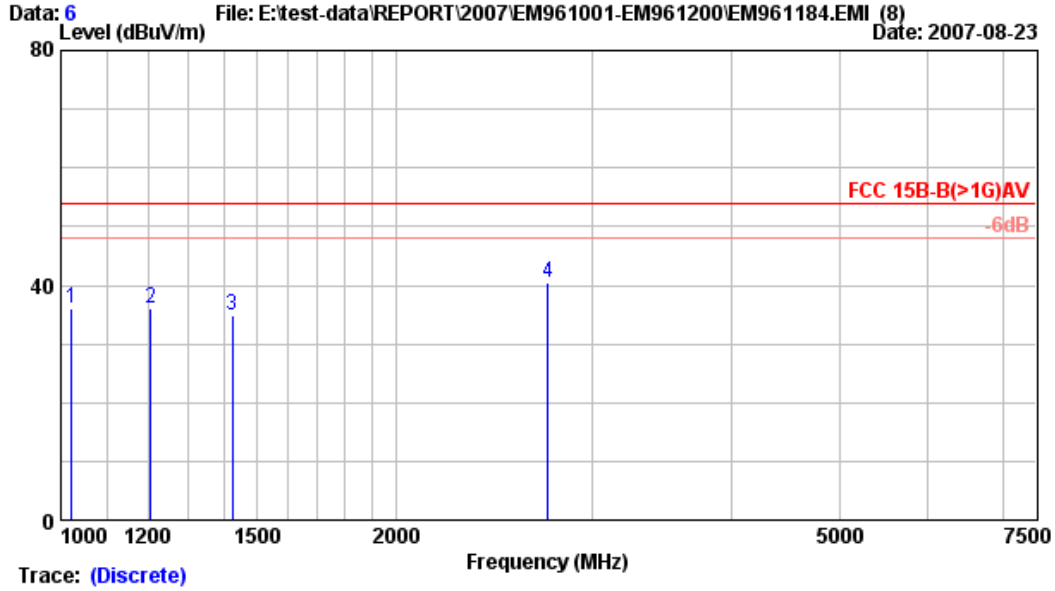



```
Site no.      : NO.6 OPEN SITE              Data no.   : 5
Dis. / Ant.   : 3m   HORN 3115              Ant. pol.  : HORIZONTAL
Limit         : FCC 15B-B(>1G) PEAK
Env. / Ins.   : 28*C /43 %  E7405A          Engineer   : Newman yang
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac / 60Hz
Test Mode     : 1280*1024/60  DVI
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1022.000	23.98	4.16	18.00	46.14	74.00	27.86	Peak
2	1204.000	24.54	4.43	16.00	44.97	74.00	29.03	Peak
3	1426.000	25.13	4.72	13.00	42.85	74.00	31.15	Peak
4	2736.000	29.34	7.15	11.00	47.49	74.00	26.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw




```
Site no.      : NO.6 OPEN SITE              Data no.   : 6
Dis. / Ant.   : 3m   HORN 3115              Ant. pol.  : HORIZONTAL
Limit         : FCC 15B-B(>1G)AV
Env. / Ins.   : 28*C /43 %  E7405A          Engineer   : Newman yang
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac / 60Hz
Test Mode     : 1280*1024/60  DVI
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1022.000	23.98	4.16	8.00	36.14	54.00	17.86	Average @
2	1204.000	24.54	4.43	7.00	35.97	54.00	18.03	Average @
3	1426.000	25.13	4.72	5.00	34.85	54.00	19.15	Average @
4	2736.000	29.34	7.15	4.00	40.49	54.00	13.51	Average @

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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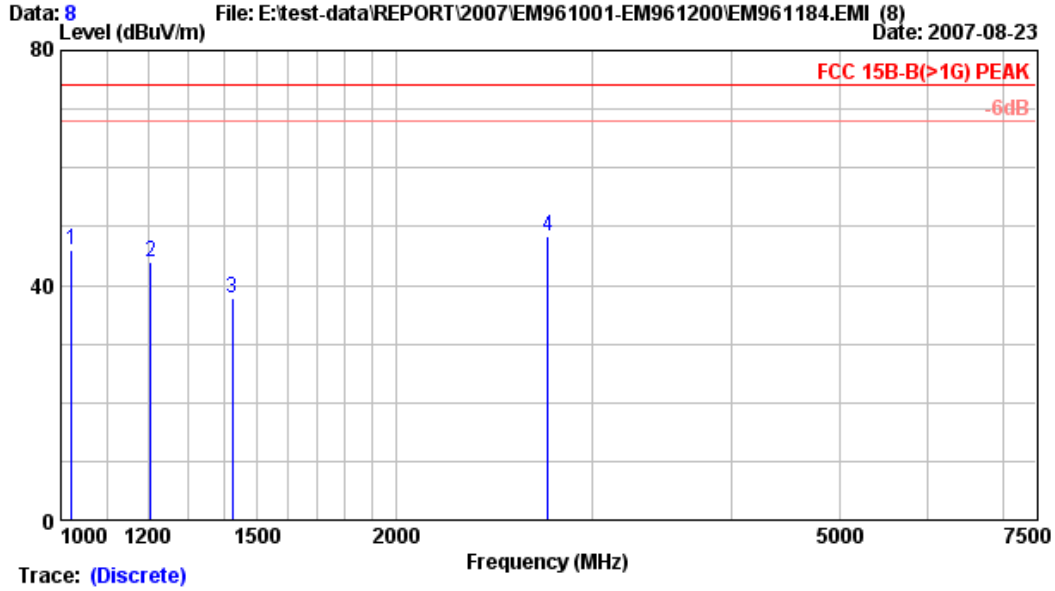
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw



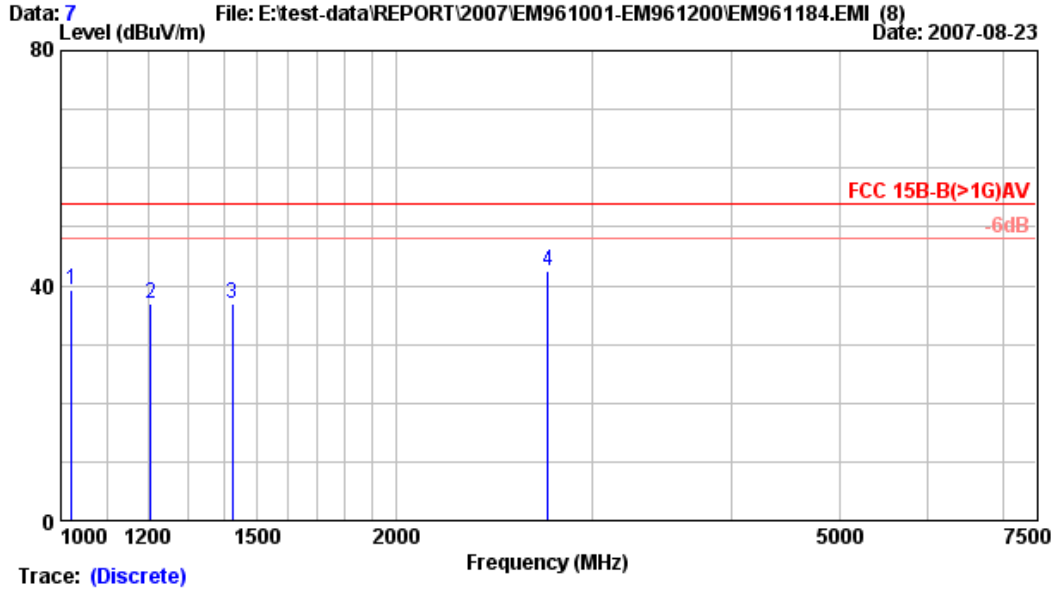
Site no. : NO.6 OPEN SITE
Dis. / Ant. : 3m HORN 3115
Limit : FCC 15B-B(>1G) PEAK
Env. / Ins. : 28*C /43 % E7405A
EUT : LCD Monitor M/N:ER-191
Power Rating : 120Vac / 60Hz
Test Mode : 1280*1024/60 DVI

Data no. : 8
Ant. pol. : VERTICAL
Engineer : Newman yang

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1023.000	23.98	4.16	18.00	46.14	74.00	27.86	Peak
2	1204.000	24.54	4.43	15.00	43.97	74.00	30.03	Peak
3	1426.000	25.13	4.72	8.00	37.85	74.00	36.15	Peak
4	2736.000	29.34	7.15	12.00	48.49	74.00	25.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11 , Tin-fu Tsun , Lin-kou Hsiang ,Taipei
County ,Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email : ttemc@ttemc.com.tw




```
Site no.      : NO.6 OPEN SITE              Data no.   : 7
Dis. / Ant.   : 3m    HORN 3115             Ant. pol.  : VERTICAL
Limit         : FCC 15B-B(>1G)AV
Env. / Ins.   : 28*C /43 %   E7405A         Engineer   : Newman yang
EUT           : LCD Monitor M/N:ER-191
Power Rating  : 120Vac / 60Hz
Test Mode     : 1280*1024/60   DVI
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1023.000	23.98	4.16	11.00	39.14	54.00	14.86	Average
2	1204.000	24.54	4.43	8.00	36.97	54.00	17.03	Average
3	1426.000	25.13	4.72	7.00	36.85	54.00	17.15	Average
4	2736.000	29.34	7.15	6.00	42.49	54.00	11.51	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

4. DEVIATION TO TEST SPECIFICATIONS

During above 1GHz frequency range measurement, due to low loss cable length limitation, the horn antenna couldn't move up and down between 1 to 4 meters. But the test result was not affected due to the worst receiving condition of horn antenna should be at 1 meter high for above 1GHz radiation measurement.

5. PHOTOGRAPHS

5.1. Photos of Powerline Conducted Emission Measurement

FRONT VIEW OF CONDUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

5.2. Photos of Radiated Emission Measurement at Semi-Anechoic Chamber (30-1000MHz)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

5.3. Photos of Radiated Emission Measurement at Open Area Test Site (30-1000MHz)

Test Mode: H Pattern, 1280*1024/60Hz (DVI)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

Test Mode: H Pattern, 1280*1024/60Hz (DVI)

SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION

SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

5.4. Photos of Radiated Emission Measurement at Open Area Test Site (Above 1GHz)

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

APPENDIX I
(Photos of EUT)

Total Pages: 13 Pages

Figure 1
General Appearance (Front View)

Figure 2
General Appearance (Front & Side View)

Figure 3
General Appearance (Rear View)

Figure 4
General Appearance (Rear & Side View)

Figure 5
General Appearance (Bottom View)

Figure 6
Appearance (I/O Ports)

Figure 7
Internal View (Removed Back Cover)

Figure 8
Internal View

Figure 9
Internal View (Removed Power Board & Main Board)

Figure 10
Internal View (Removed Shield Cover, Power Board/Component View)

Figure 11
Internal View (Power Board/Component View)

Figure 12
Internal View (Power Board/Foil View)

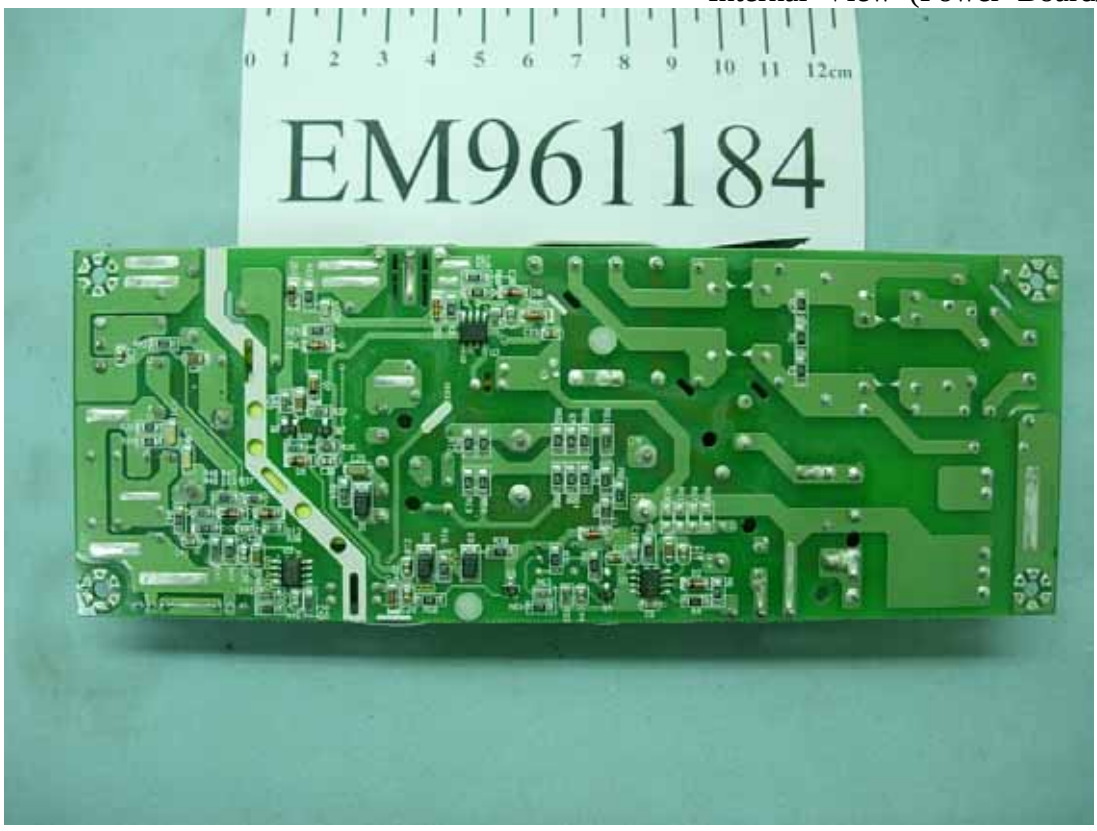


Figure 13
Internal View (Main Board/Component View)

Figure 14
Internal View (Main Board/Foil View)

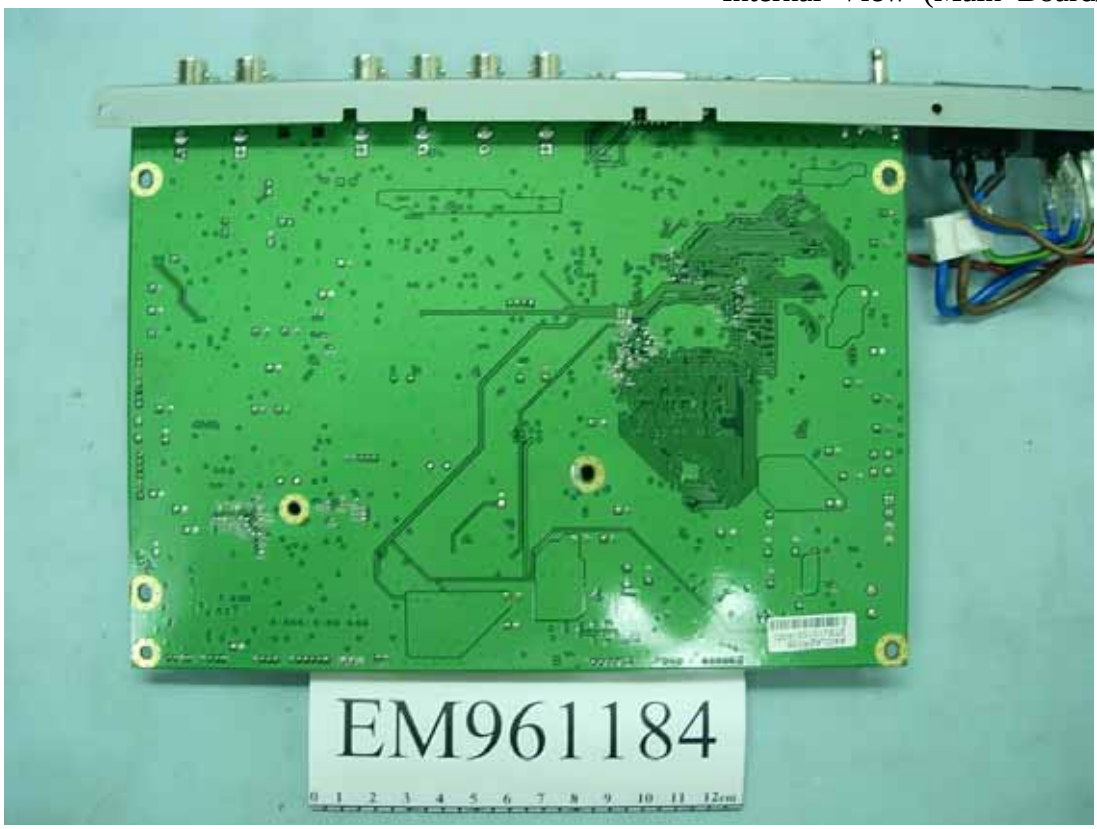


Figure 15
Internal View (Inverter Board/Component View)

Figure 16
Internal View (Inverter Board/Foil View)

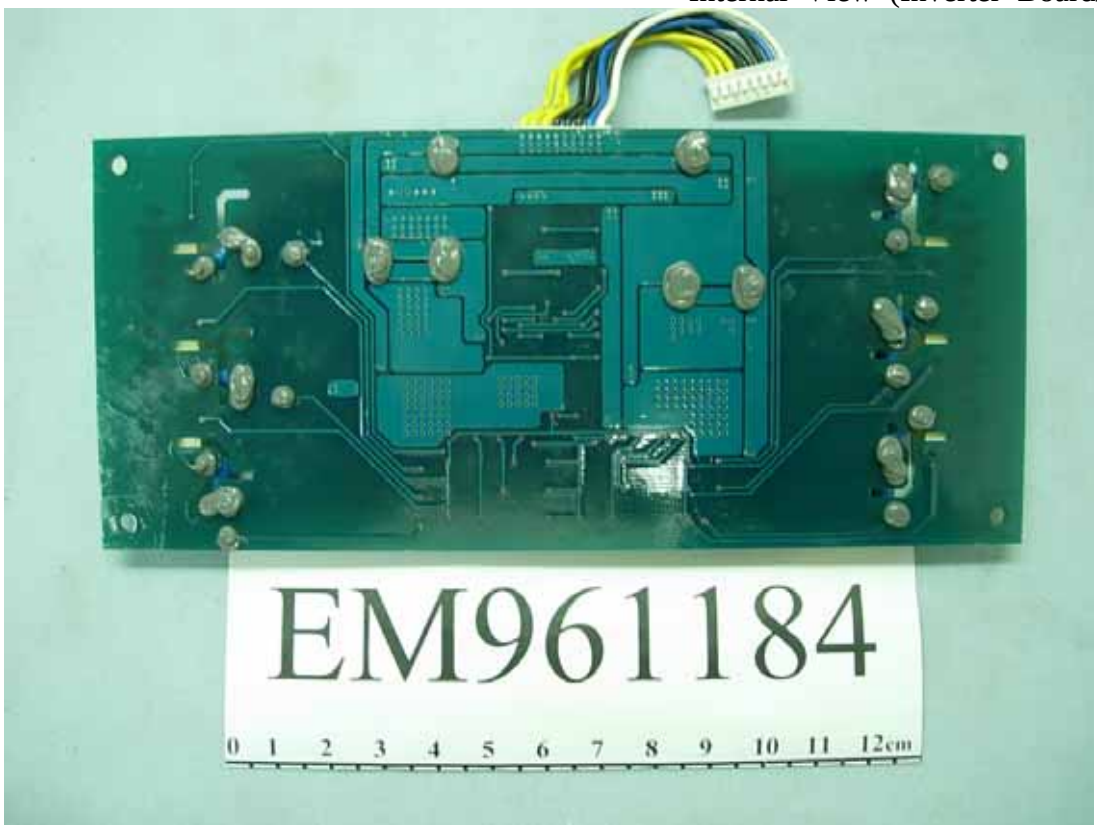


Figure 17
Internal View (Function Control Board/Component View)

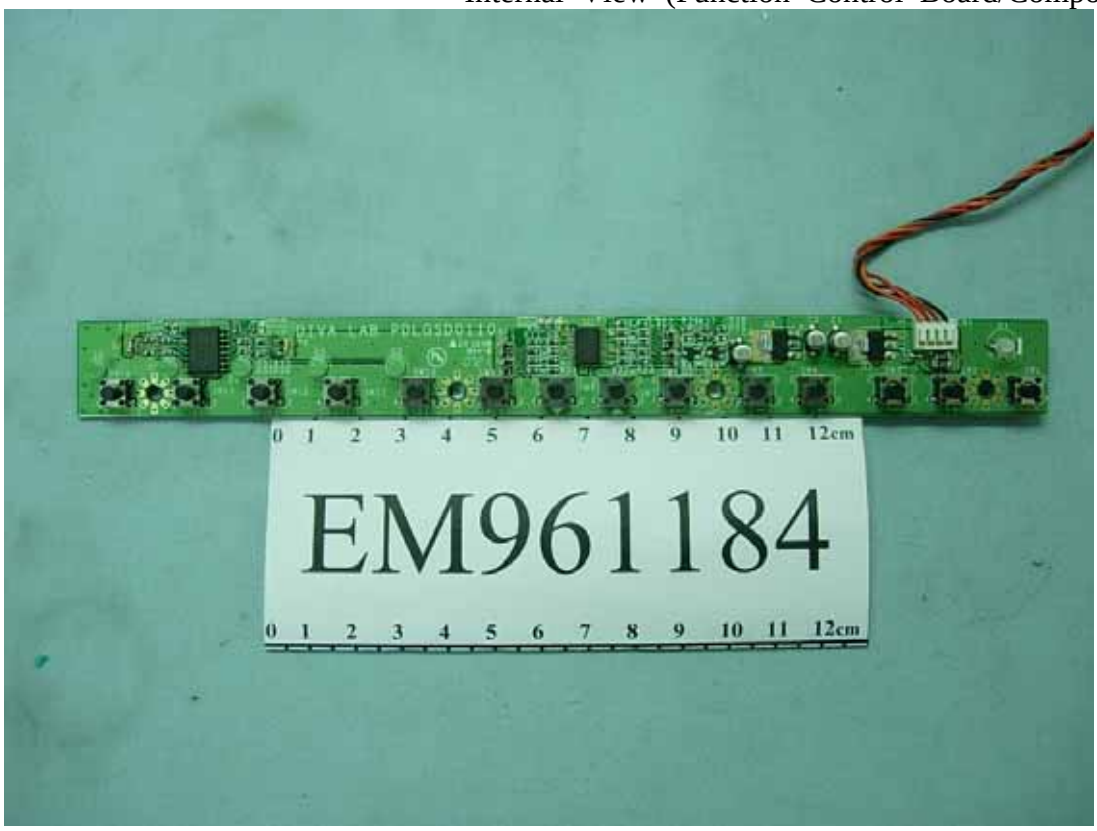


Figure 18
Internal View (Function Control Board/Foil View)

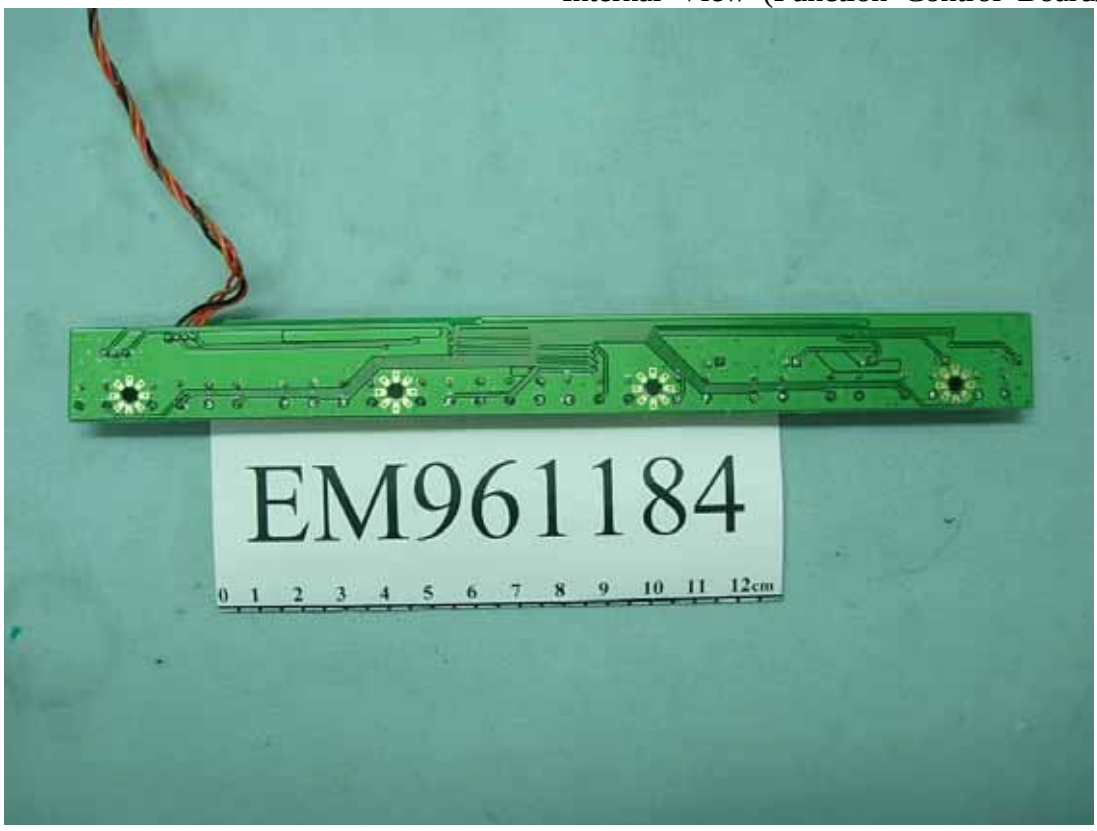


Figure 19
Removed Metal Cover, LCD Panel (Rear View)

Figure 20
LCD Panel (Rear View)

Figure 21
LCD Panel (Label View)

Figure 22
Internal View (Control Board of LCD Panel/Component View)

Figure 23
Internal View (Control Board of LCD Panel/Foil View)

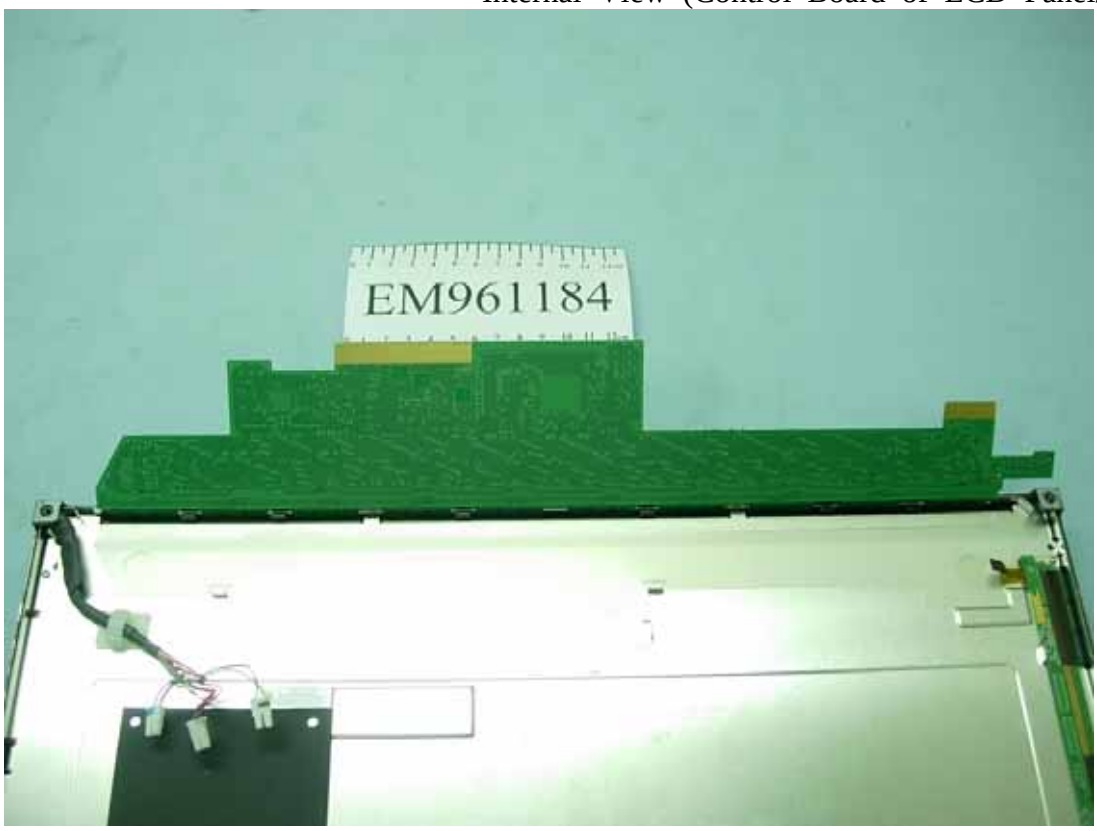


Figure 24
D-Sub Data Cable

Figure 25
DVI Data Cable

Figure 26
BNC Data Cable